



June 30, 2025

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

**Re: REVISED Release Characterization and Remediation Work Plan Addendum
ConocoPhillips
James E #001 Tubing Line Release
Unit Letter G, Section 11, Township 22 South, Range 30 East
Eddy County, New Mexico
Incident ID NRM2007952227**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess and evaluate a release that occurred from the tubing associated with the James E #001 well (API #30-015-20996). The release Site is located in Public Land Survey System (PLSS) Unit Letters G, Section 11, Township 22 South, and Range 30 East, Eddy County, New Mexico. The coordinates of the release point are approximately 32.408516°, -103.849337°, as shown in Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 16, 2020. The release occurred as the result of a hole in the tubing line check valve. Approximately 7 barrels (bbls) of produced water and 1.75 bbls of oil were released, of which none were recovered. The release footprint is located on the northern portion of the James E #001 well pad and adjacent pasture extending approximately 485 feet north and north-northwest. The New Mexico Oil Conservation District (NMOCD) received the initial C-141 report form for the release on March 17, 2020. The NMOCD Incident ID for this release is NRM2007952227.

The Initial C-141 Form had inaccurate information, regarding a James E battery location, thus, there were several clarifications needed to be made to the C-141.

- Site Name in the C-141 is erroneously listed as "James E Federal (Lower) Battery". Tetra Tech revised to read James E #001.
- The GPS coordinates provided are erroneously tied to the James E Federal (Lower) Battery. Tetra Tech revised to 32.408516°, -103.849337°
- The James E #001 is in Unit Letter G, not in Unit Letter B as stated on the C-141 Form. Tetra Tech revised.

The revised C-141 with corrections and notes was provided to COP on September 17, 2020, resubmitted and approved by the NMOCD. That revised C-141 is included in Appendix A.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). Prior to conducting remediation activities, this REVISED Remediation Work Plan will be submitted to the BLM for review.

Tetra Tech

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INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in March 2020. The visibly impacted material within the release footprint, extending from the approximate release location north approximately 450 feet to boring location AH-3, was scraped to an approximate depth of six inches. Approximately 10 cubic yards of impacted material was removed during the initial response activities. Figure 3 depicts the release extent and the scraped area.

SITE VISIT

A Tetra Tech geologist was onsite on July 14, 2020 to assess current site conditions and collect photographs of the impacted area. During the site visit, visually impacted areas were observed along a singular drainage feature extending in a thin winding footprint and terminating approximately 500 feet north of the James E #001 wellhead. This visually impacted area totals approximately 2,030 square feet.

As the release footprint was walked and documented, it was evident that the area immediately north of the well pad contained abundant polyethylene liner material mixed in with the surface soils. As shown on Figure 3, this observed area with liner material measures approximately 200 feet by 200 feet. The release footprint extended over and through the observed liner area and continued into the pasture to the north and west. This area appears to be a former reclaimed reserve pit, based on a cursory review of historical aerial imagery. Photographic documentation of the site visit is included in Appendix B.

INITIAL SITE ASSESSMENT AND SAMPLING RESULTS

In an attempt to achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling on February 2, 2021, on behalf of ConocoPhillips. A total of four (4) borings (BH-1 through BH-4) were installed with a truck-mounted air rotary drilling rig. Borehole (BH)-1 was drilled within the release footprint just north of the release source. BH-2 through BH-4 were drilled on the well pad east, south and west of the release footprint. Boring logs, included as Appendix C, present soil descriptions, sample depths, and field screening data from the February 2021 assessment activities. Boring locations are shown in Figure 3.

A total of twenty-four (24) soil samples were collected from the four (4) boring locations. These soil samples were shipped to Pace Analytical (Pace) on February 8, 2021 to be analyzed for chloride via EPA Method SM45000CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Results from the February 2021 soil sampling event are summarized in Table 1. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix D.

The analytical results associated with the initial assessment were inconsistent. The analytical results associated with the BH-1 location (inside the footprint) indicated chloride concentrations below site RRALS down to a depth of 40 feet bgs, and below reclamation requirements in the 44-45 foot interval.

Analytical results associated with the BH-4 location (outside the footprint, on pad) indicated elevated chloride concentrations above reclamation requirements for soils within the upper 4 feet bgs. The concentrations were, however, below the chloride Site RRAL of 20,000 mg/kg. These analytical results indicate impacted soils that are presumed unrelated to the NRM2007952227 release based on the distance from the reported release footprint (approximately 123 feet away).

Analytical results associated with the BH-2 and BH-3 locations (outside the footprint, on pad) are all below Site RRALS for chloride. There were no other analytical results which exceeded the Site RRAL for chloride during the initial assessment. The analytical results associated with the BH-1 boring location exceeded the Site RRAL for TPH at the 2-3 foot depth interval. The remainder of the samples analyzed were below the TPH Site RRAL of 2,500 mg/kg. The analytical results associated with BH-1 through BH-4 were all below the RRAL for BTEX (50 mg/kg).

ADDITIONAL SITE ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

On March 3 and May 5, 2021 Tetra Tech personnel returned to the Site to complete nine (9) soil borings (AH-1 through AH-9) using hand augers to further delineate the impacted areas vertically and horizontally.

AH-1 was installed west of the well pad to laterally bound the concentrations discovered in the vicinity of BH-4. AH-2 and AH-3 were installed within the release extent to attempt to obtain vertical delineation of the NRM2007952227 release. AH-4 through AH-9 were installed outside the release extent to laterally bound the extent of chloride for the release footprint.

A total of nineteen (19) samples were collected from the nine (9) borings and submitted to Pace to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. Results from borings installed in the pasture (AH-1 through AH-3 and AH-6 through AH-9) are summarized in Table 2. Results from the borings installed within the vicinity of the former reserve pit are summarized in Table 3. Boring locations are shown in Figure 3. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix D.

The analytical results associated with AH-2 indicated elevated chloride concentrations in the upper 3 feet. Analytical results from AH-5 were below reclamation requirements at the 0-1 foot depth interval but indicated elevated chloride concentrations above reclamation requirements in the 2-3 foot depth interval. The analytical results from AH-5 indicate unrelated impact to soil below the surface. There were no other analytical results which exceeded the chloride Site RRAL during the additional assessment activities. The analytical results for AH-1 through AH-9 were all below the RRALs for TPH and BTEX.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLE PLAN

A Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on July 30, 2021, with fee application payment PO Number 5HXB2-210730-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 denied via email by Robert Hamlet of the NMOCD on Tuesday, November 9, 2021, with the following reasoning:

- *“The Remediation Plan is denied: The release will need to be fully remediated on pad to the strictest closure criteria standards due to high karst potential. All sample points, except the requested sample points for deferral, must have contaminated soil removed before a deferral request is submitted. The only remediation that should remain are the sample points that are being requested for deferral. If equipment is present, specify exactly which sample points you are asking for a deferral on and the reason the contaminants cannot be removed. Due to the sensitive nature of the site, the alternative sampling plan is denied. Please collect confirmation samples, representing no more than 200 ft². The liner installation at 4 feet is denied. The entire off-pad portion of the release (including the legacy reserve pit) must be horizontally and vertically delineated/excavated to meet reclamation requirements.”*

NMOCD email correspondence associated with the rejection is presented in Appendix E.

ADDITIONAL DELINEATION ACTIVITIES AND SAMPLING RESULTS

To comply with the NMOCD denial reasoning, Tetra Tech conducted additional delineation activities at the Site over several events from December 2022 to May 2023. On December 12, 2022, Tetra Tech personnel were onsite to complete three (3) soil borings (AH-10 (2022) through AH-12 (2022)) using hand augers to horizontally delineate the area associated with AH-2 and area west of AH-4. A total of three (3) soil samples were collected at 0-1 feet bgs for laboratory analysis in December 2022.

On February 28, 2023, a total of three (3) borings (BG-1, BH-2A and BH-4A) were installed with an air rotary drilling rig. BH-2A and BH-4A were installed to confirm the previous analytical results and vertically delineate the previously drilled BH-2 and BH-4 borings to a chloride concentration of 600 mg/kg at depths of 15 and 40 feet bgs, respectively. Background (BG)-1 was installed south of the well pad to collect soil samples to determine natural background levels for chloride in the area to a depth of 50 feet bgs. A total of thirty (30) soil samples were collected for laboratory analysis in February 2023. Analytical results from BH-2A and BH-4A are summarized in Table 1. Analytical results from the background boring BG-1 are summarized in Table 4.

On March 22, 2023, a total of fifteen hand auger (15) borings (AH-10 through AH-14, AH-10E through AH-14E and AH-10W through AH-14W) were installed to delineate the area associated with the former reserve pit. AH-10 through AH-14 were installed to a depth of 4 feet bgs within the release footprint while the remainder of the borings were installed to a depth of 1-foot bgs for horizontal delineation. A total of thirty (30) soil samples were collected for laboratory analysis in March 2023. Analytical results from the March 2023 borings are summarized in Table 3.

On May 10, 2023, a total of two (2) borings (BH-5 and BH-6) were installed with an air rotary drilling rig within the release footprint inside the former reserve pit area. BH-5 and BH-6 were installed to depths of 80 feet bgs and 25 feet bgs, respectively, to vertically delineate to a chloride concentration of 600 mg/kg within the former reserve pit area. Additionally, AH-10E-2 was installed via hand auger to horizontally delineate east of AH-10E. A total of twenty-four (24) soil samples were collected in May 2023 for laboratory analysis. Analytical results from the March 2023 borings are summarized in Table 3.

Soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM45000Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Boring locations from the 2022 and 2023 assessment activities are shown in Figure 4. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix D.

The analytical results associated with the area containing AH-14 and BH-5 indicate exceedances of the TPH RRAL (2,500 mg/kg) at the 2-3' foot interval. The remainder of the analytical results from December 2022 to May 2023 were below the TPH RRAL and were non detect for BTEX. AH-10 through AH-14 analytical results indicated chloride concentrations above reclamation requirements for soils in the upper 4 feet bgs. While vertical delineation of chloride was obtained through the analytical results for BH-5 at depths of 79 feet bgs, chloride concentrations vary significantly at the Site and in the surrounding area.

REVISED REMEDIATION WORK PLAN (2023)

Based on the analytical results and revised site characterization, a REVISED Release Characterization Work Plan (REVISED Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on September 5, 2023, with the appropriate fee application. The REVISED Work Plan described the results of the initial response activities, both initial and additional release assessment and provided characterization of the impact at the site. The plan contained a variance request for the placement of a geosynthetic clay liner (GCL) within the excavated areas north of the wellhead, inside the former reserve pit and in the vicinity of BH-4/4A. The REVISED Work Plan was denied via email by Scott Rodgers of the NMOCD on March 18, 2024, with the following reasoning:

- ***Synthetic liners that are placed on top of contamination as a remediation variance in an effort solely to ensure contamination doesn't migrate further is not equal or better protection, as the contamination will remain in place. Variances with a liner request solely to reduce cleanup will be denied. OCD may also require landowner concurrence for any variance request to permanently leave contamination in place. This site is in a mapped High Karst area and will need to be delineated and remediated to the more stringent criteria in Table 1 (Part 29).***

REVISED SITE CHARACTERIZATION (2025)

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). There is a stream body (watercourse) located less than 300 feet to the south. The Site is in an area of high karst potential based on the BLM Karst Potential Map.

SITE-SPECIFIC KARST SURVEY

COP contracted Goshawk Environmental Consulting, Inc. (Goshawk) to conduct a karst survey of the James E #001 Tubing Line Release and the surrounding area. The survey was conducted in accordance with BLM CFO Karst Survey Requirements and included a resource review, field investigation, and report of findings. The report findings concluded the following: "Although unidentified subsurface karst features

within the survey area are possible, no obvious potential karst features were identified during an extensive survey of the area. Additionally, no impacts to potential karst features by the [contaminants] released from the tubing line were identified." The Goshawk Karst Survey Report is included as Appendix F.

DEPTH-TO-GROUNDWATER DETERMINATION

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells in the Public Land Survey System (PLSS) Section 11, Township 22 South, and Range 30 East. The nearest water well is approximately 2.78 miles away in Section 22 with depth to groundwater at 262 feet below ground surface (bgs).

As the available water level information is from a well further than ½ mile away from the site, ConocoPhillips elected to drill a boring to verify depth to groundwater. On February 28, 2023, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (DTW) to 105 feet bgs along the southern edge of the James E #001 well pad. The borehole was temporarily set and screened using 2-inch PVC well materials. No water was present in the well during or after drilling. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are included in Appendix G.

REVISED 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) and total petroleum hydrocarbons (TPH) in soil.

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

Constituent	Site RRALs
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

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

REVISED REMEDIATION WORK PLAN ADDENDUM (2025)

Based on the analytical results and revised site characterization, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface. The area around the approximate release point and wellhead will be excavated to a depth of 6 inches bgs through non-aggressive methods to remove surficial staining, if present. Any area containing pressurized lines will be hand-dug or removed via hydro-excavation, and heavy equipment will come no more than 4 ft from any pressurized lines. Areas lacking horizontal delineation (sample locations AH-11E, AH-12W and AH-13E) will be delineated during remedial activities and confirmed through the collection and analysis of confirmation sidewall samples.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and

analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 880 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Fifteen (15) confirmation floor samples and eighteen (18) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 6,206 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area in which sampling is proposed. Confirmation samples will be sent to an accredited laboratory for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (Method SM4500Cl-B). Once results are received and evaluated, the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas located outside of the well pad extent will be seeded in the first favorable growing season to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and planted in the amount specified in the pounds pure live seed per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix H.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.



Ryan C. Dickerson
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Sam Widmer, RMR – ConocoPhillips
Crisha Morgan, BLM

LIST OF ATTACHMENTS

Figures:

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

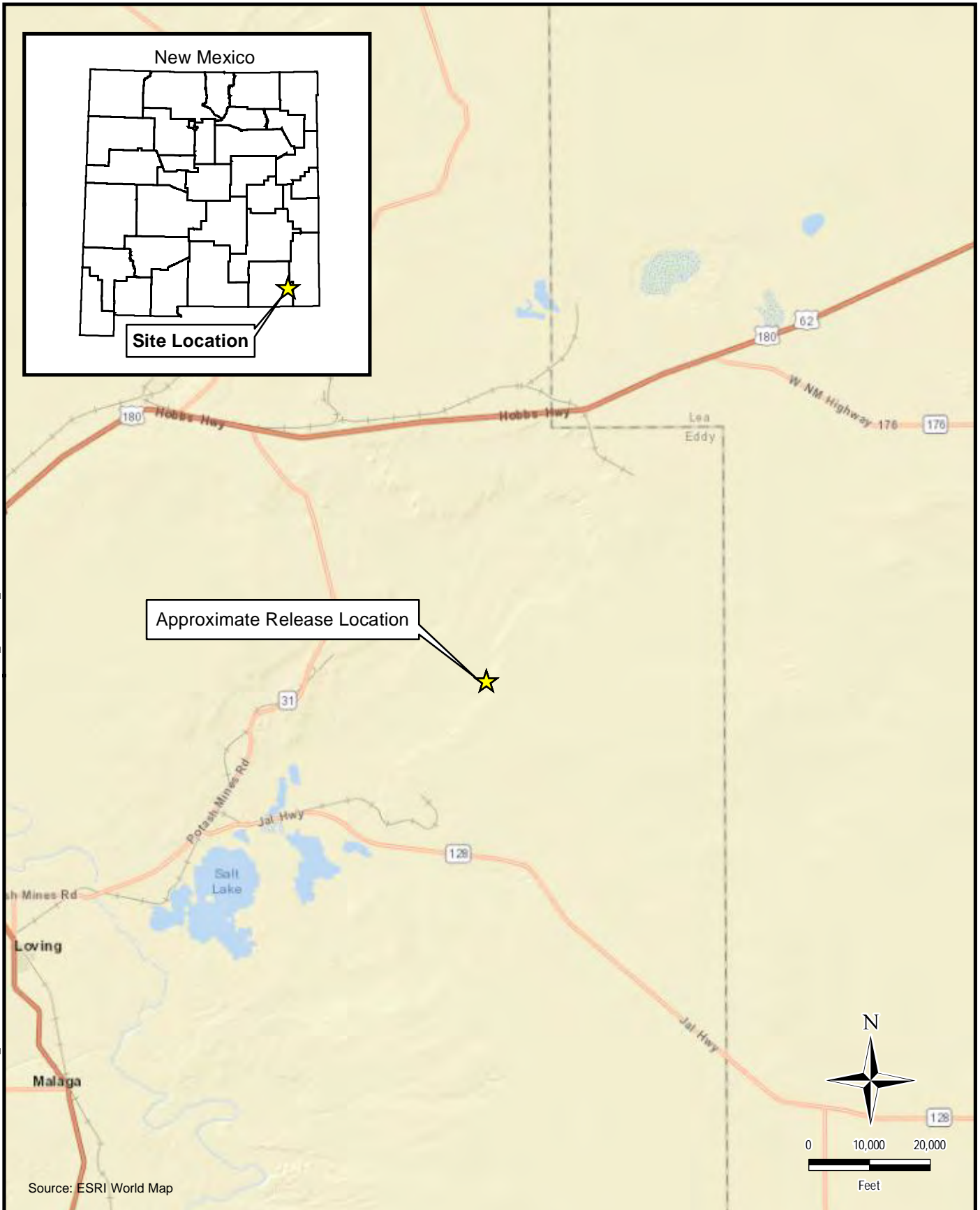
Tables:

- Table 1 – Summary of Analytical Results – On-pad Soil Assessment
- Table 2 – Summary of Analytical Results – Pasture Soil Assessment
- Table 3 – Summary of Analytical Results – Former Reserve Pit Soil Assessment
- Table 4 – Summary of Analytical Results – Background Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Photographic Documentation
- Appendix C – Soil Boring Logs
- Appendix D – Laboratory Analytical Data
- Appendix E – Regulatory Correspondence
- Appendix F – Karst Survey Report
- Appendix G – REVISED Site Characterization Data
- Appendix H – BLM Seed Mixture Details

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\JAMES E #001 SITE FILES\TETRA ENVIRONMENTAL FIGURES\FIGURE 1 OVERVIEW MAP_JAMES E_001.MXD

Source: ESRI World Map



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CONOCOPHILLIPS

NRM2007952227
 (32.408538°, -103.849342°)
 EDDY COUNTY, NEW MEXICO

JAMES E #001 TUBING LINE RELEASE
 OVERVIEW MAP

PROJECT NO.: 212C-MD-02413

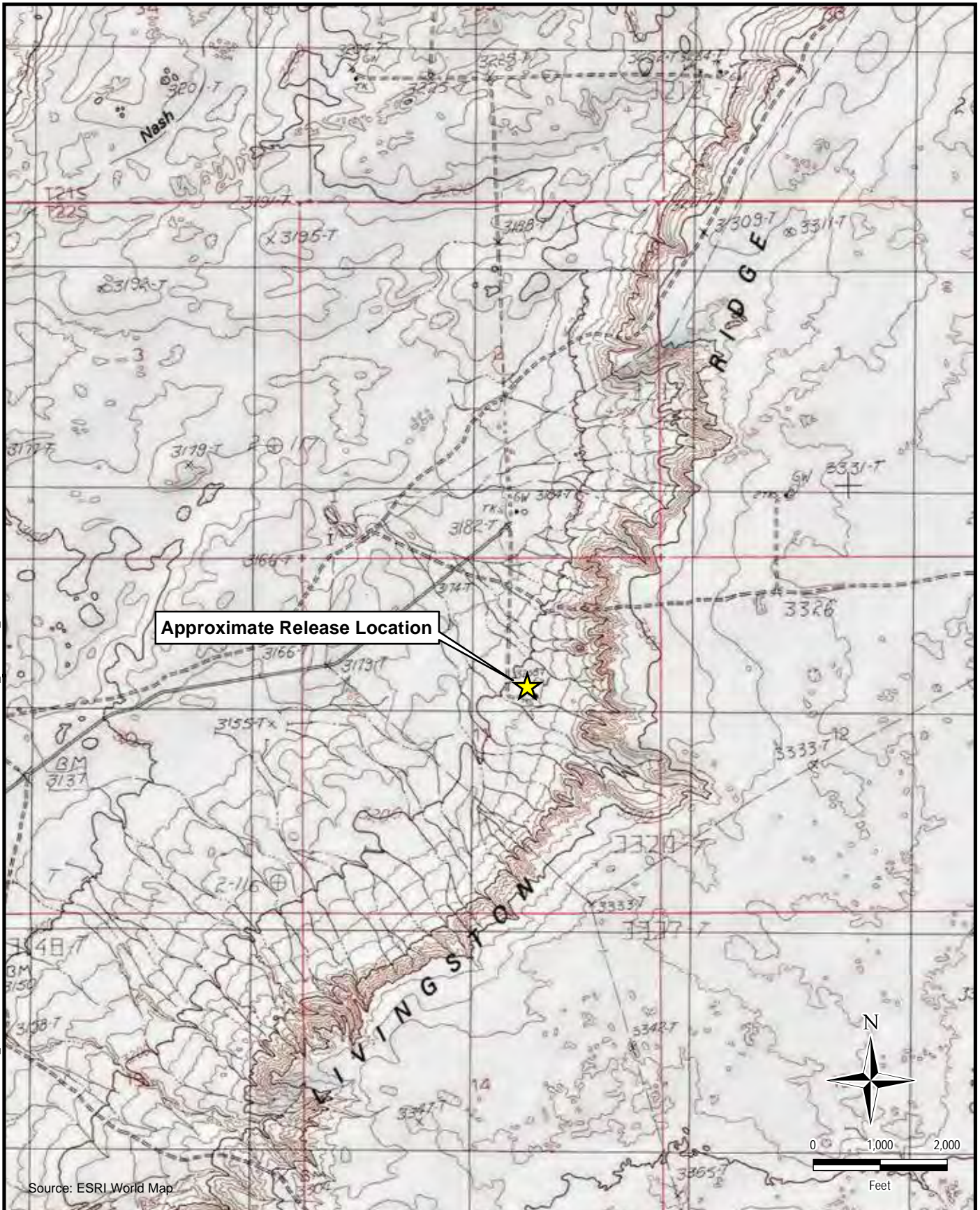
DATE: JUNE 01, 2021

DESIGNED BY: AJH

Figure No.

1

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\JAMES E #001 SITE FILE\SITE ENVIRONMENTAL FIGURES\FIGURE 2 TOPO MAP - JAMES E_001.MXD



Source: ESRI World Map



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CONOCOPHILLIPS

NRM2007952227
 (32.408538°, -103.849342°)
 EDDY COUNTY, NEW MEXICO

JAMES E #001 TUBING LINE RELEASE
 TOPOGRAPHIC MAP

PROJECT NO.: 212C-MD-02413

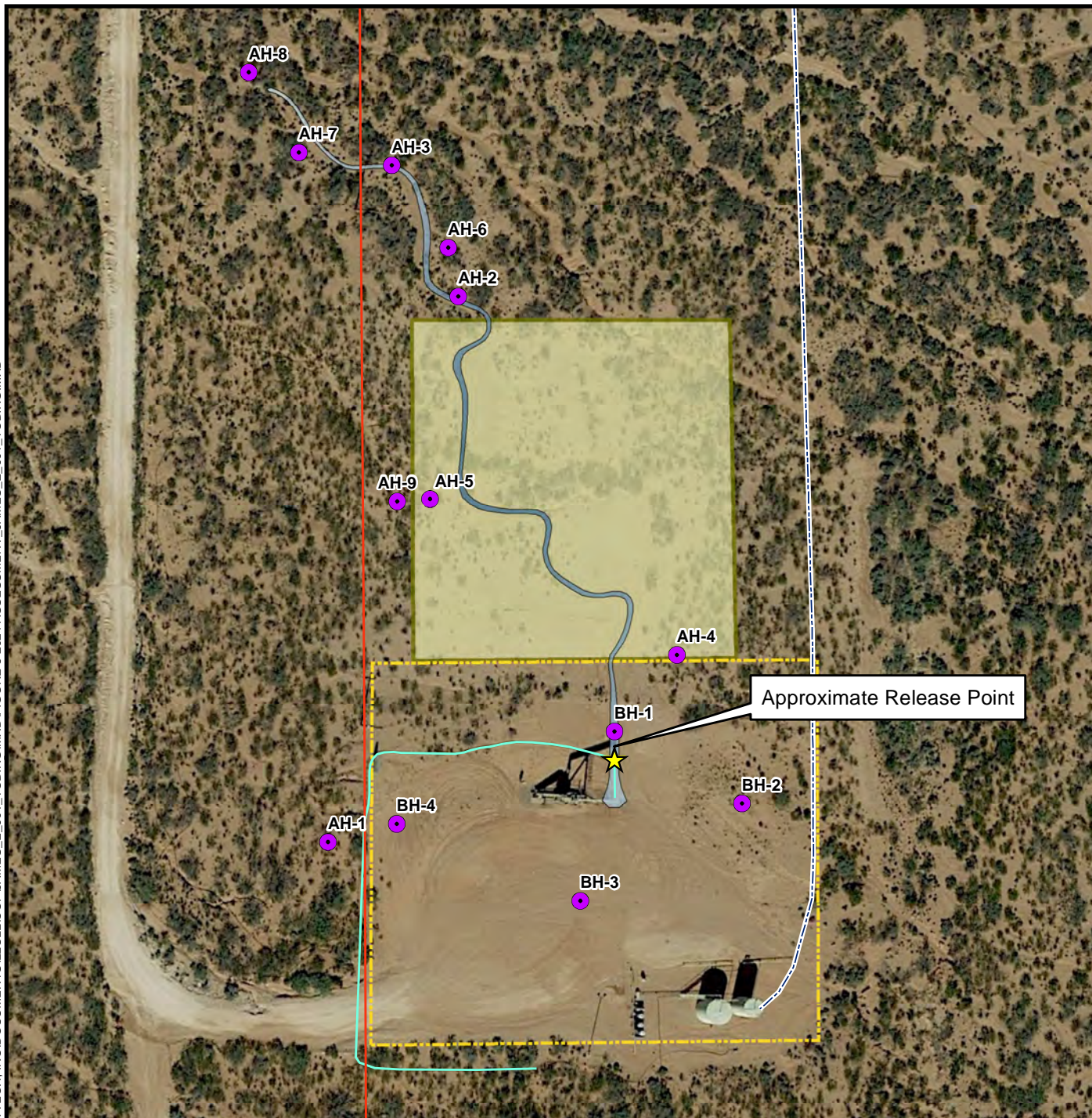
DATE: JUNE 01, 2021

DESIGNED BY: AJH

Figure No.

2

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INC\DOCUMENTS\ULLL\COP\JAMES_E_001_TUBING\MD\FIGURE 3 2021 ASSESSMENT_JAMES_E_001_TUBING.MXD




Legend

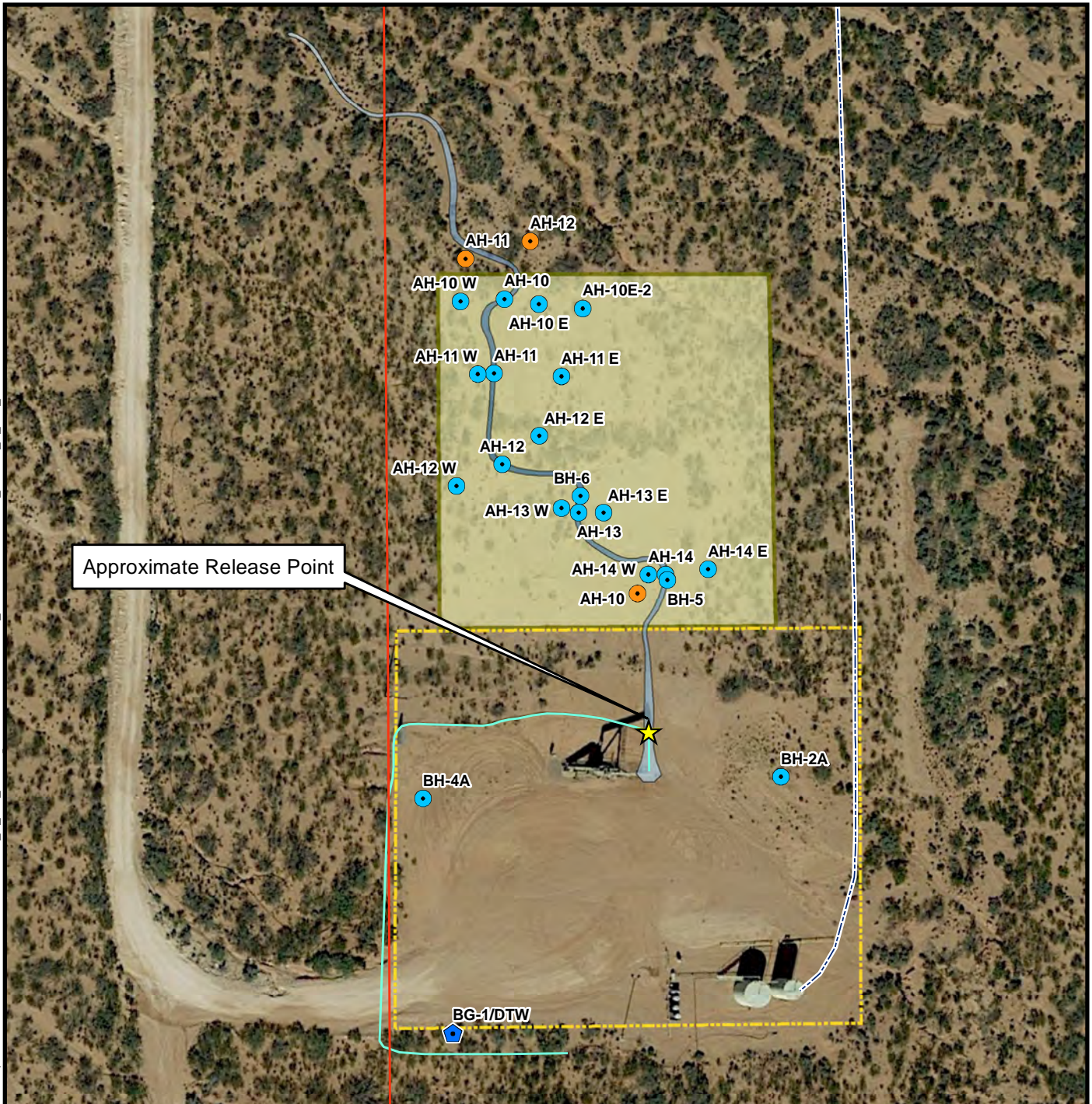
- Boring Location - February 2021
- Flowline
- Observed Release Extent Path
- Overhead Powerlines
- Approximate Pad Footprint
- Subsurface NG Pipeline
- Inferred Reserve Pit Area

Source: Google Earth.



 www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS NRM2007952227 (32.408538°, -103.849342°) EDDY COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-02413
	JAMES E #001 TUBING LINE RELEASE 2021 ASSESSMENT	DATE: JUNE 26, 2023 DESIGNED BY: LMV
		Figure No. 3

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INC\DOCUMENTS\TUBING\JAMES_E_001_TUBING\MXD\FIGURE 4 2022_2023 ASSESSMENT_JAMES_E_001_TUBING.MXD



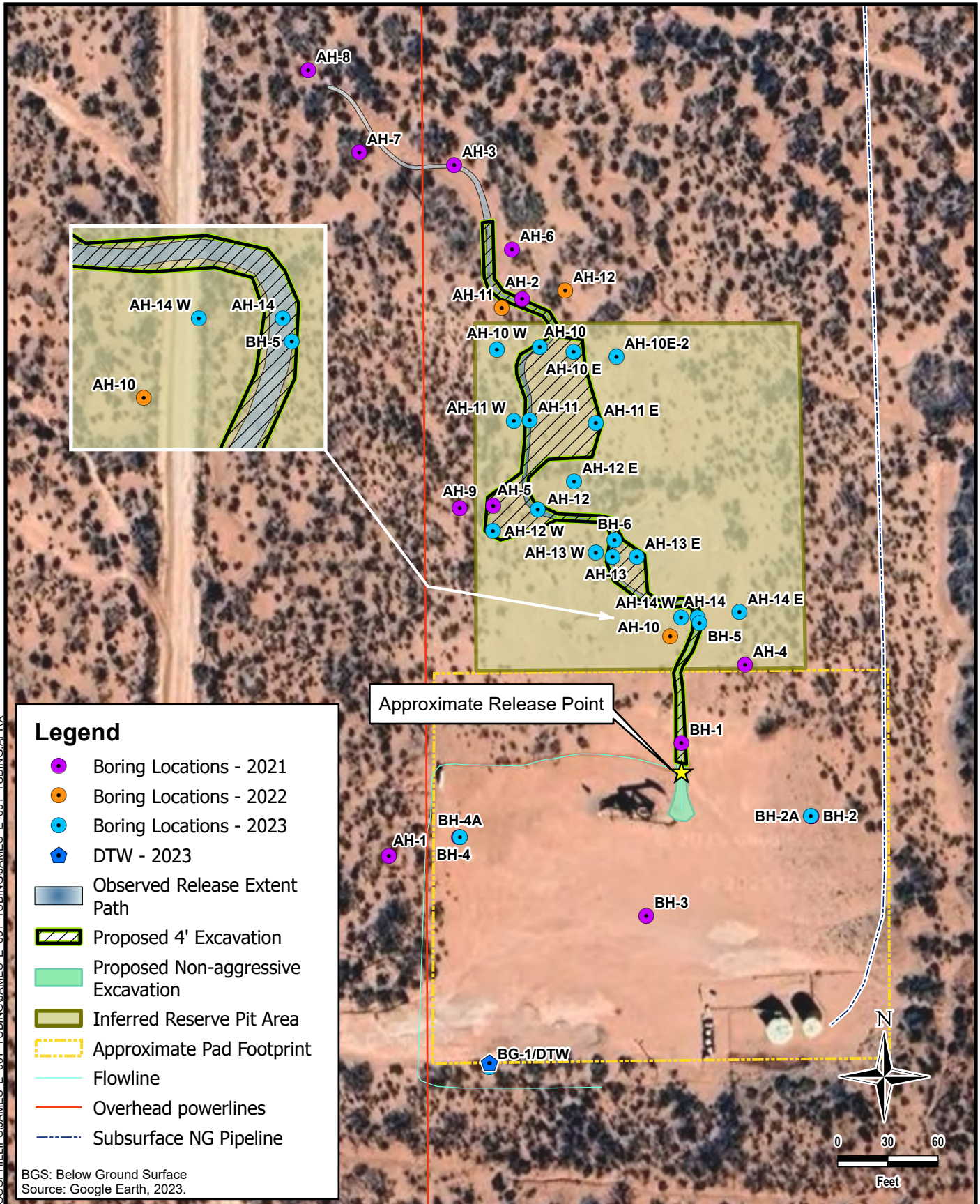
Approximate Release Point

Legend	
	Boring Location - 2022
	Boring Location - 2023
	DTW - 2023
	Observed Release Extent Path
	Approximate Pad Footprint
	Inferred Reserve Pit
	Flowline
	Overhead Powerlines
	Subsurface NG Pipeline

Source: Google Earth.



<p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NRM2007952227 (32.408538°, -103.849342°) EDDY COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02413</p>
	<p>JAMES E #001 TUBING LINE RELEASE 2022 AND 2023 ASSESSMENT</p>	<p>DATE: JUNE 26, 2023</p> <p>DESIGNED BY: LMV</p>
		<p>Figure No. 4</p>



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Legend

- Boring Locations - 2021
- Boring Locations - 2022
- Boring Locations - 2023
- DTW - 2023
- Observed Release Extent Path
- Proposed 4' Excavation
- Proposed Non-aggressive Excavation
- Inferred Reserve Pit Area
- Approximate Pad Footprint
- Flowline
- Overhead powerlines
- Subsurface NG Pipeline

BGS: Below Ground Surface
Source: Google Earth, 2023.

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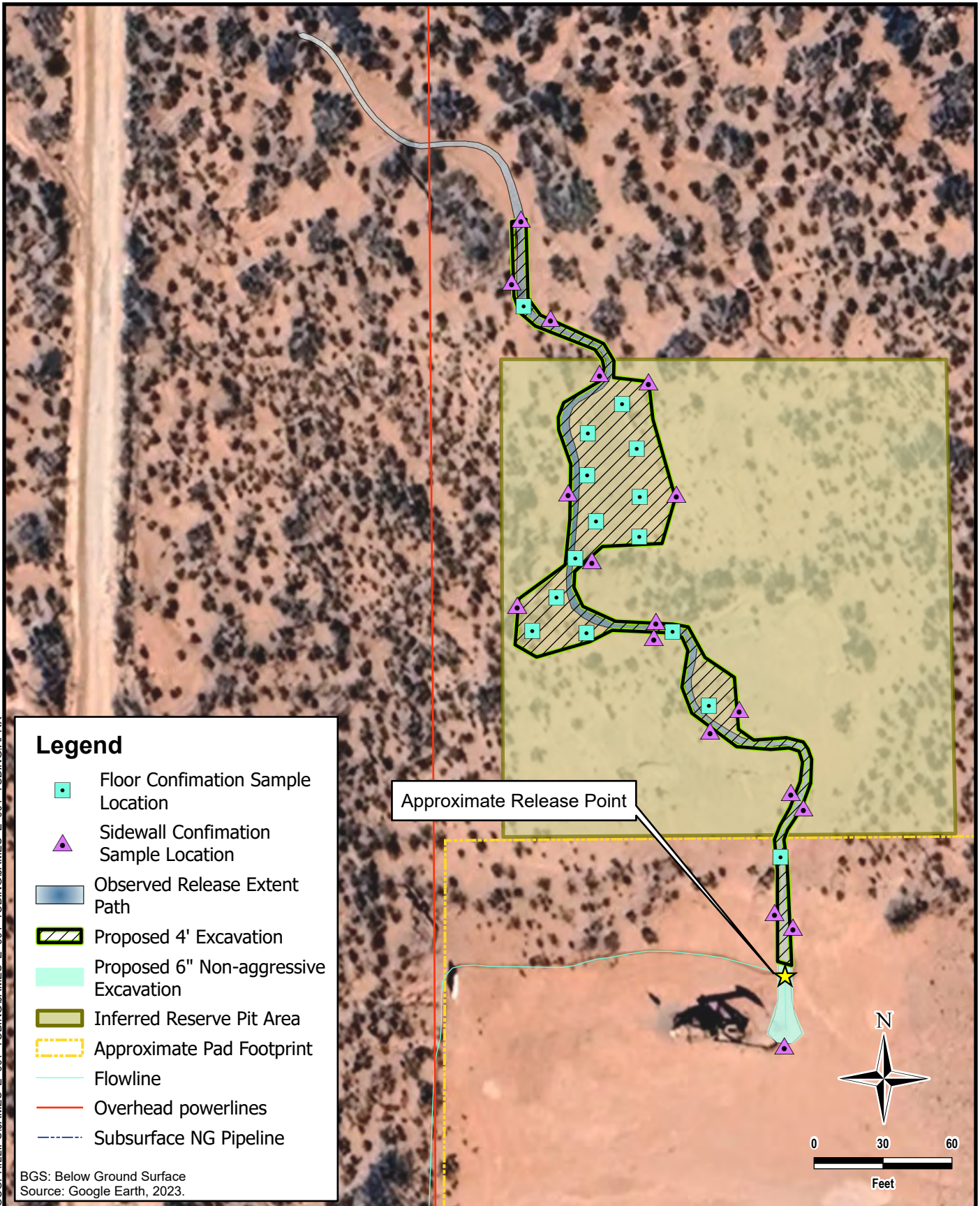
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CONOCOPHILLIPS

NRM2007952227
(32.408538°, -103.849342°)
EDDY COUNTY, NEW MEXICO

**JAMES E #001 TUBING LINE RELEASE
PROPOSED REMEDIATION**

PROJECT NO.:	212C-MD-02413
DATE:	JUNE 17, 2025
DESIGNED BY:	LMV
Figure No.	5



Legend

- Floor Confirmation Sample Location
- ▲ Sidewall Confirmation Sample Location
- Observed Release Extent Path
- Proposed 4' Excavation
- Proposed 6" Non-aggressive Excavation
- Inferred Reserve Pit Area
- Approximate Pad Footprint
- Flowline
- Overhead powerlines
- Subsurface NG Pipeline

BGS: Below Ground Surface
Source: Google Earth, 2023.

Approximate Release Point



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CONOCOPHILLIPS

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EDDY COUNTY, NEW MEXICO

**JAMES E #001 TUBING LINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-02413

DATE: JUNE 25, 2025

DESIGNED BY: LMV

Figure No.

6

TABLES

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 PASTURE SOIL ASSESSMENT - NRM2007952227
 CONOCOPHILLIPS
 JAMES E #001 TUBING LINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²						TPH ³										
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)
							C ₃ - C ₁₀	C ₁₀ - C ₂₈	C ₂₈ - C ₄₀	C ₃ - C ₁₀	C ₁₀ - C ₂₈	C ₂₈ - C ₄₀	C ₃ - C ₁₀	C ₁₀ - C ₂₈	C ₂₈ - C ₄₀	C ₃ - C ₁₀	C ₁₀ - C ₂₈	C ₂₈ - C ₄₀	C ₃ - C ₁₀	C ₁₀ - C ₂₈	C ₂₈ - C ₄₀		
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	Q		
AH-1	3/3/2021	0-1	-	-	24.2	J	< 0.00153		< 0.00764		< 0.00382		< 0.00994		-	< 0.126		< 5.06		2.65	J	2.65	
		2-3	-	-	35.2		< 0.00105		< 0.00523		< 0.00261		< 0.00680		-	< 0.102		2.74	J	9.01		11.8	
AH-2	3/3/2021	0-1	-	-	971		< 0.00108		< 0.00540		< 0.00270		< 0.00702		-	< 0.104		18.9		36.7		55.6	
		2-3	-	-	3020		< 0.00172		< 0.00860		< 0.00430		< 0.0112		-	0.154		< 5.44		1.20	J	1.35	
		4-5	-	-	206		< 0.00111		< 0.00554		< 0.00277		< 0.00720		-	< 0.105		8.94		12.8		21.7	
AH-3	3/3/2021	0-1	-	-	400		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-	< 0.103		41.3		58.2		99.5	
		2-3	-	-	215		< 0.00104		< 0.00519		< 0.00259		< 0.00674		-	0.0457	B J	3.30	J	5.20		8.55	
AH-6	3/3/2021	0-1	-	-	< 20.2		< 0.00102		< 0.00510		< 0.00255		< 0.00663		-	< 0.101		2.81	J	1.75	J	4.56	
		2-3	-	-	< 20.2		< 0.00102		< 0.00510		< 0.00255		< 0.00662		-	< 0.101		3.76	J	2.28	J	6.04	
AH-7	3/3/2021	0-1	-	-	< 20.4		< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	< 0.102		6.92		13.6		20.5	
		2-3	-	-	< 20.5		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-	< 0.103		2.12	J	4.96		7.08	
AH-8	3/3/2021	0-1	-	-	62.0		< 0.00140		< 0.00701		< 0.00351		< 0.00912		-	0.0458	J	2.81	J	4.48	J	7.34	
		2-3	-	-	17.3	J	< 0.00115		< 0.00577		< 0.00289		< 0.00751		-	< 0.108		3.62	J	4.07	J	7.69	
AH-9	5/5/2021	0-1	384	-	< 21.9		< 0.00119	J3	< 0.00594	J3	< 0.00297	J3	< 0.00773		-	< 0.109		< 4.38		6.90		6.90	
		2-3	1670	-	15.0	J	< 0.00107		< 0.00537		< 0.00269		< 0.00699		-	< 0.104		< 4.15		3.28	J	3.28	
AH-11 (2022)	12/12/2022	0-1	69		32.0		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
AH-12 (2022)	12/12/2022	0-1	37.3		32.0		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics
- 1 EPA Method 300.0
- 2 EPA Method 8260B
- 3 EPA Method 8015
- 4 EPA Method 8015D/GRO

Bold and italicized values indicate exceedance of proposed RRALs and/or reclamation requirements for soils above 4 feet bgs outside of oil and gas operations.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

- B The same analyte is found in the associated blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- J3 The associated batch QC was outside the established quality control range for precision.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
FORMER RESERVE PIT SOIL ASSESSMENT - NRM2007952227
CONOCOPHILLIPS
JAMES E #001 TUBING LINE RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²					TPH ³										
			Chloride	PID	mg/kg	Q	Benzene		Toluene		Ethylbenzene		Total Xylenes		GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)	
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg
AH-4	3/3/2021	0-1	-	-	< 11.2		< 0.00143		< 0.00716		< 0.00358		< 0.00931		-	0.0913	B J	< 4.87		1.41	J	1.50
		2-3	-	-	518		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	< 0.103		3.92	J	6.69		10.6
AH-5	3/3/2021	0-1	-	-	< 20.7		< 0.00107		< 0.00533		< 0.00266		< 0.00692		-	0.0550	B J	6.58		15.1		21.7
		2-3	-	-	812		< 0.00166		< 0.00829		< 0.00415		< 0.0108		-	< 0.133		< 5.31		1.46	J	1.46
AH-10 (2022)	12/12/2022	0-1	61.2	-	16.0		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-10	3/22/2023	0-1	-	-	288		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		1-2	-	-	352		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		2-3	-	-	464		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		3-4	-	-	1,330		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-10E	3/22/2023	0-1	-	-	2,400		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-10E-2	5/10/2023	0-1	-	-	112		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-10W	3/22/2023	0-1	-	-	16.0		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-11	3/22/2023	0-1	-	-	592		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		1-2	-	-	1,150		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		2-3	-	-	1,840		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		3-4	-	-	1,880		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-11E	3/22/2023	0-1	-	-	976		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-11W	3/22/2023	0-1	-	-	176		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-12	3/22/2023	0-1	-	-	128		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		1-2	-	-	672		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		2-3	-	-	1,310		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		3-4	-	-	1,740		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-12E	3/22/2023	0-1	-	-	144		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-12W	3/22/2023	0-1	-	-	832		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-13	3/22/2023	0-1	-	-	384		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		1-2	-	-	336		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		2-3	-	-	1,040		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
		3-4	-	-	1,250		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-13E	3/22/2023	0-1	-	-	1,220		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH13W	3/22/2023	0-1	-	-	288		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH-14	3/22/2023	0-1	-	-	896		<0.050		<0.050		<0.050		<0.150		-	<10.0		144		22.22		166.22
		1-2	-	-	2,280		<0.050		<0.050		<0.050		<0.150		-	<10.0		695		192		887
		2-3	-	-	5,520		<0.050		<0.050		<0.050		<0.150		-	<10.0		2,490		606		3,096
		3-4	-	-	4,320		<0.050		<0.050		<0.050		<0.150		-	<10.0		889		168		1,057
AH-14E	3/22/2023	0-1	-	-	80.0		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-
AH14W	3/22/2023	0-1	-	-	544		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-

TABLE 3
 SUMMARY OF ANALYTICAL RESULTS
 FORMER RESERVE PIT SOIL ASSESSMENT - NRM2007952227
 CONOCOPHILLIPS
 JAMES E #001 TUBING LINE RELEASE
 EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²						TPH ³										
			Chloride	PID	mg/kg	Q	Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
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	Q	mg/kg	
BH-5	5/10/2023	5-6	-	-	2600		<0.050		<0.050		<0.050		<0.150		-	<10.0		412		111		523	
		7-8	-	-	3280		<0.050		<0.050		<0.050		<0.150		-	<10.0		134		<10.0		134	
		9-10	-	-	2880		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		14-15	-	-	4800		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		19-20	-	-	5200		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		24-25	-	-	6260		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		29-30	-	-	4320	QM-07	<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		34-35	-	-	3920		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		39-40	-	-	5200		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		44-45	-	-	4400		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		49-50	-	-	5760		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		54-55	-	-	4640		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		59-60	-	-	4560		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		64-65	-	-	4160		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
69-70	-	-	4320		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-			
74-75	-	-	3600		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-			
79-80	-	-	240		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-			
BH-6	5/10/2023	5-6	-	-	1360		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		7-8	-	-	2480		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		9-10	-	-	6000		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		14-15	-	-	6400		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
		19-20	-	-	5200		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-	
24-25	-	-	3760		<0.050		<0.050		<0.050		<0.150		-	<10.0		<10.0		<10.0		-			

NOTES:
 ft. Feet
 bgs Below ground surface
 ppm Parts per million
 mg/kg Milligrams per kilogram
 TPH Total Petroleum Hydrocarbons
 GRO Gasoline range organics
 DRO Diesel range organics
 ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs and/or reclamation requirements for soils above 4 feet bgs outside of oil and gas operations.
 Shaded rows indicate intervals proposed for excavation.

1 EPA Method SM4500CI-B
 2 EPA Method 8021B
 3 EPA Method 8015
 4 EPA Method 8015D/GRO

QUALIFIERS:
 B The same analyte is found in the associated blank.
 J The identification of the analyte is acceptable; the reported value is an estimate.

TABLE 4
 SUMMARY OF ANALYTICAL RESULTS
 BACKGROUND SOIL ASSESSMENT - NRM2007952227
 CONOCOPHILLIPS
 JAMES E #001 TUBING LINE RELEASE
 EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Chloride ¹	
		ft. bgs	mg/kg	Q
BG-1	2/28/2023	0-1	16	
		2-3	144	
		4-5	384	
		6-7	480	
		9-10	720	
		14-15	1200	
		19-20	976	
		24-25	320	
		29-30	224	
		34-35	160	
		39-40	176	
		44-45	48	
		49-50	80	

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- 1 EPA Method 300.0

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	NRM2007952227
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name – Charles Beauvais	Contact Telephone +575-988-2043
Contact email – charles.r.beauvais@conocophillips.com	Incident # (assigned by OCD) NRM2007952227
Contact mailing address – 15 W London Rd, Loving, NM 88220	

Location of Release Source

Latitude ~~32.4123~~ **32.408516°** Longitude ~~-103.8486~~ **-103.849337°**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: James E Federal (Lower) Battery James E #001	Site Type: Battery Tube Line Valve
Date Release Discovered: 03/16/2020	API# (if applicable) NMNM0479142 lease code 30-015-20996

Unit Letter	Section	Township	Range	County
B G	11	22S	30E	Eddy County

Surface Owner: State Federal Tribal Private (Name: *BLM*)

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) 1.75	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 0
	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

Check valve on the tubing line developed a small hole due to corrosion on the bottom of the valve.

Incident ID	NRM2007952227
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? An authorized release of a volume, excluding gas, in excess of 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input 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: <u>Charles Beauvais</u> Title: <u>Environmental Coordinator</u> Signature: <u>[Signature]</u> Date: <u>3/17/2020</u> email: <u>charles.r.beauvais@conocophillips.com</u> Telephone: <u>575-988-2043</u>
NRM2007952227 incident number. C-141 resubmitted with corrections via the payment portal on 9/17/2020. crb
OCD Only Received by: <u>Ramona Marcus</u> Date: <u>3/19/2020</u>

Incident ID	NRM007952227
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

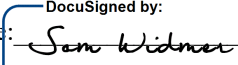
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM007952227
District RP	
Facility ID	
Application ID	

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

Printed Name: Sam widmer Title: Principal Program Manager
 Signature:  Date: Jul-01-2025
 email: 5454CA5BAD33498...sam.widmer@conocophillips.com Telephone: 907-227-1777

OCD Only

Received by: _____ Date: _____

Incident ID	NRM007952227
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Sam widmer Title: Principal Program Manager
 Signature:  Date: Jul-01-2025
 email: 5454CA5BAD33498... Sam.Widmer@conocophillips.com Telephone: 907-227-1777

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

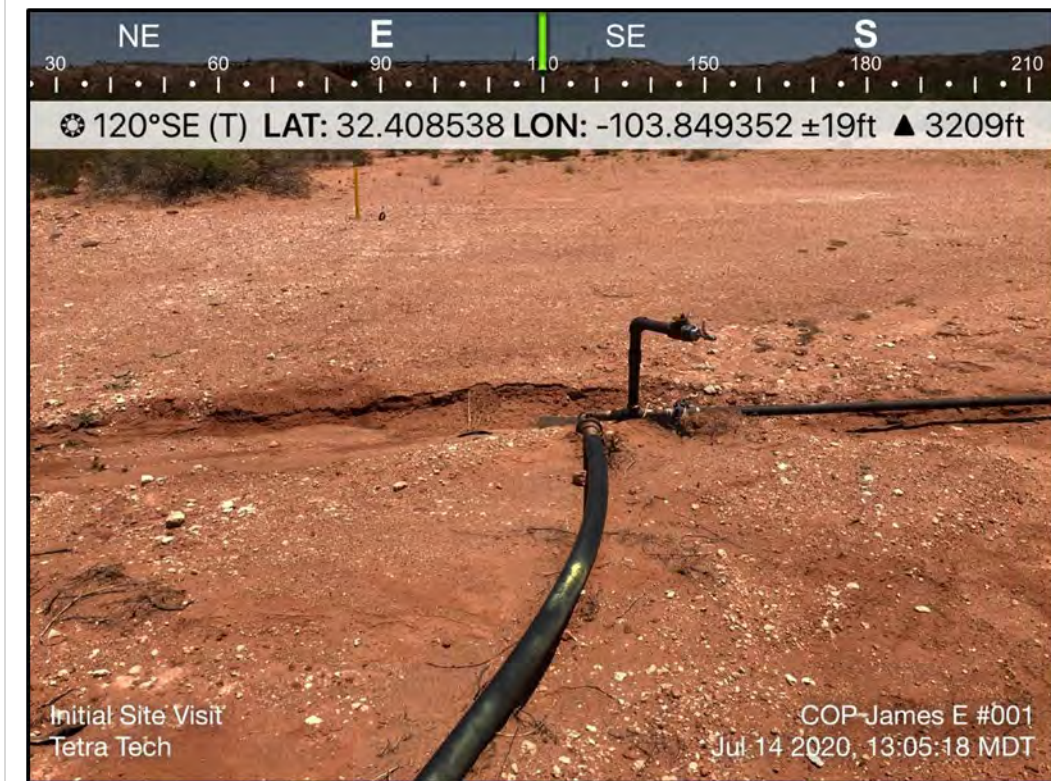
Signature: _____ Date: _____

APPENDIX B

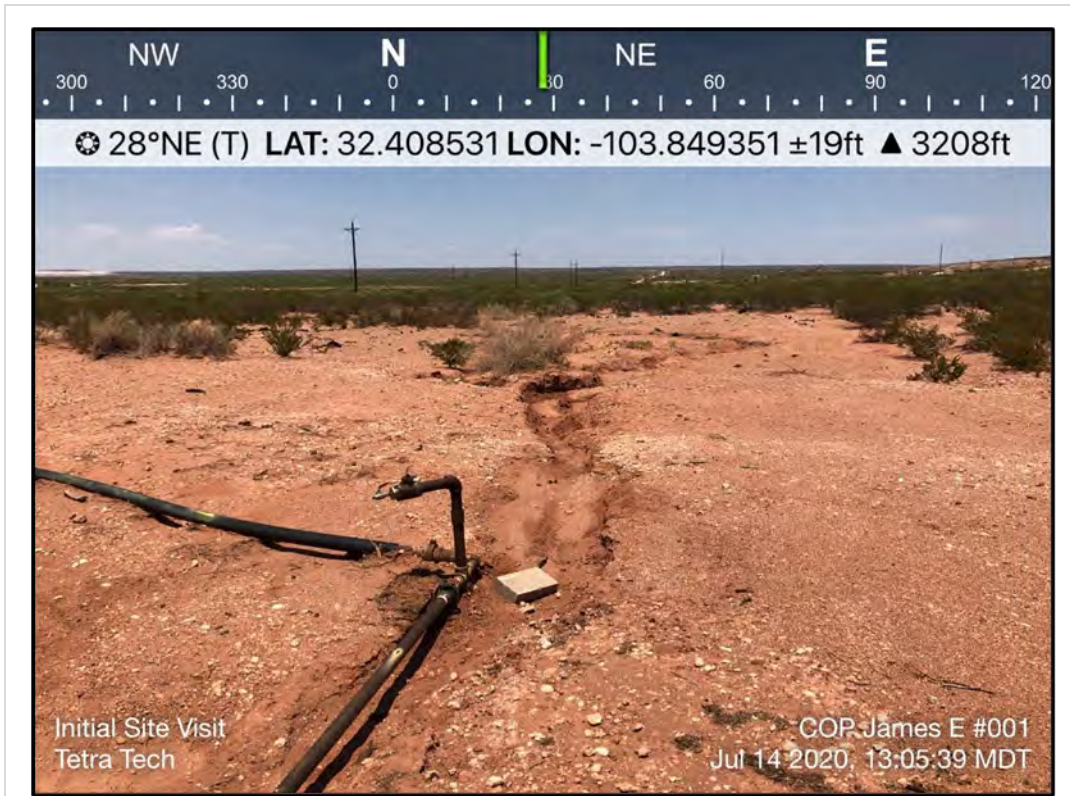
Photographic Documentation



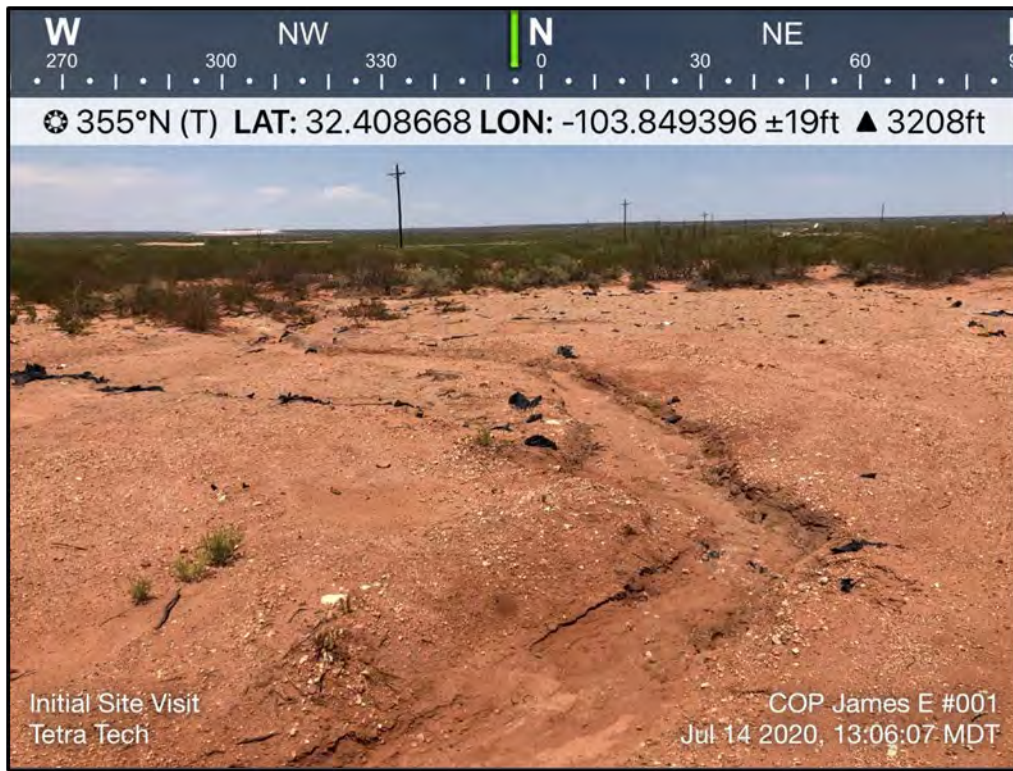
TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing north of the James E #001 signage.	1
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing southeast of the approximate release point.	2
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



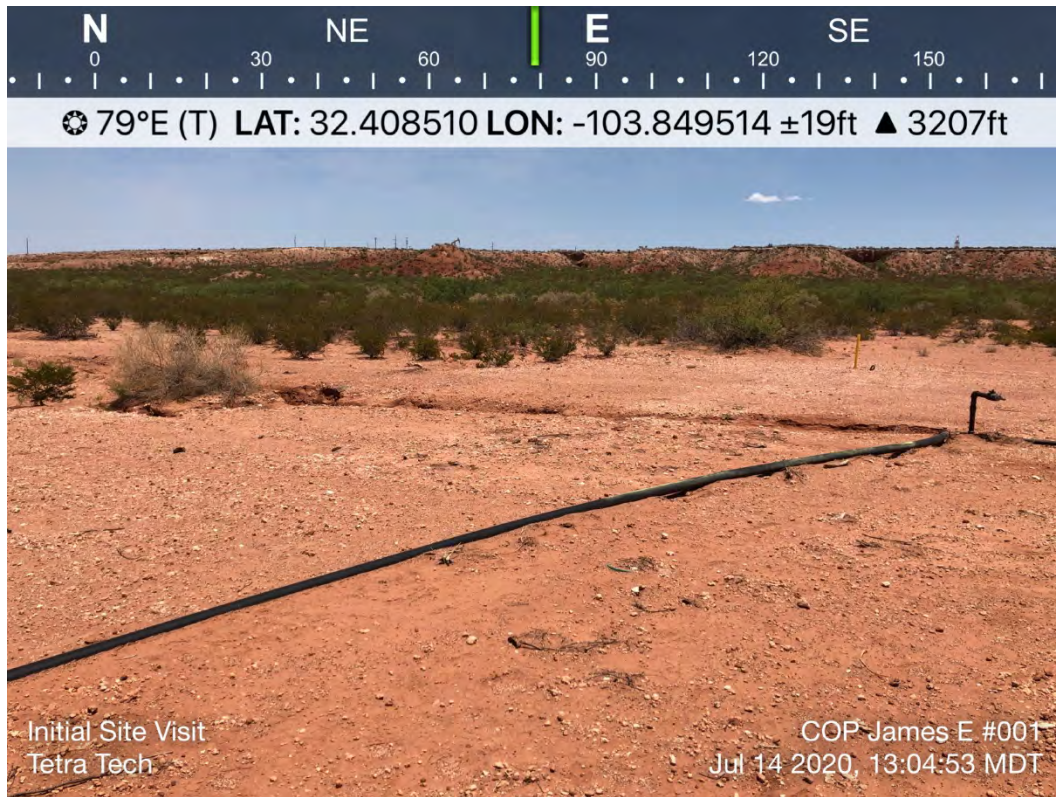
TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing northeast of the approximate release point, release footprint and associated hand dig/excavation.	3
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing north of the release footprint and associated hand dig/excavation.	4
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



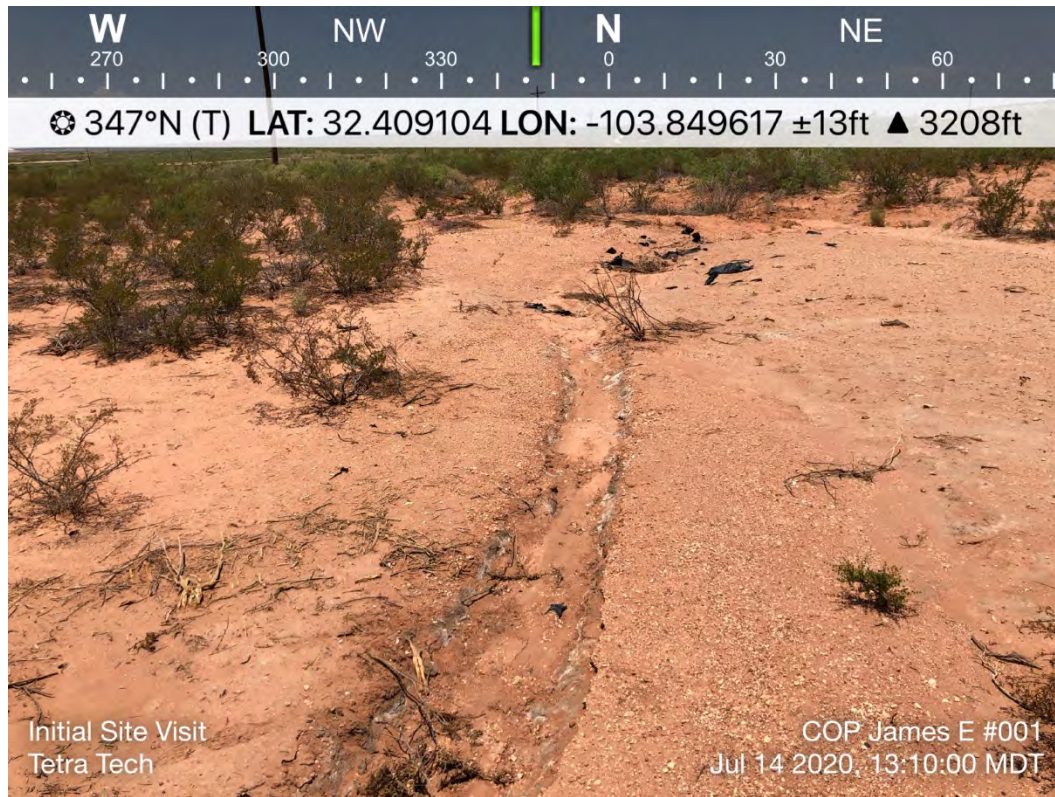
TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing east southeast of release footprint and associated hand dig/excavation.	5
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



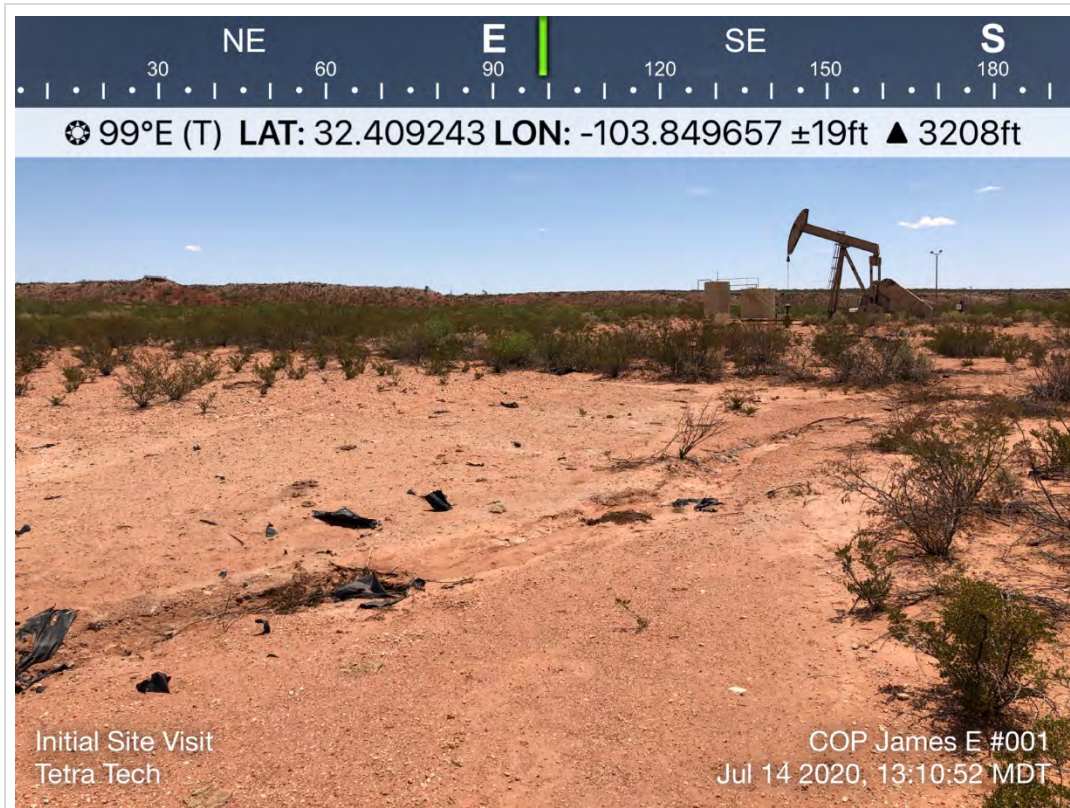
TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing east of the footprint, and hand dig/excavation.	6
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



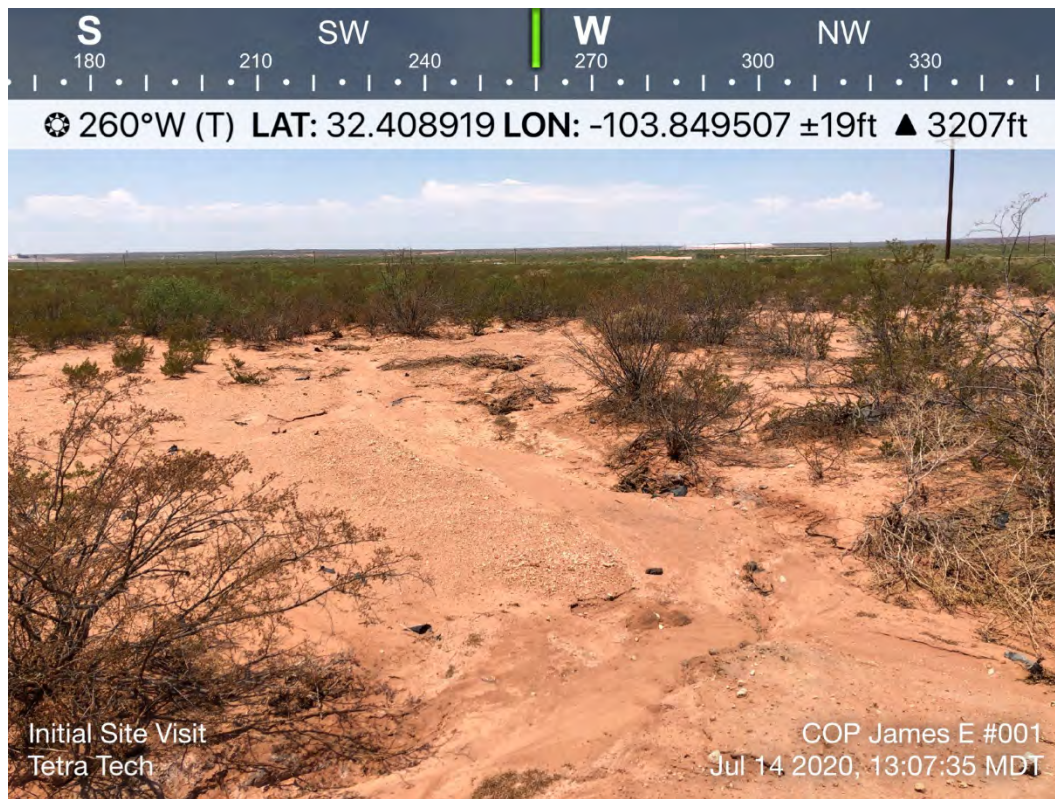
TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View facing south southeast of hand dig/excavation.	7
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View north of the release footprint and hand dig/excavation.	8
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View east of the release footprint and hand dig/excavation.	9
	SITE NAME	James E #001 Tubing Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02413	DESCRIPTION	View west of the release footprint and hand dig/excavation.	10
	SITE NAME	James E #001 Tubing Line Release	7/14/2020

APPENDIX C Soil Boring Logs

212C-MD-02413	TETRA TECH	LOG OF BORING BH-1	Page 1 of 2
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Project Name: James E #001 Tubing Line Release

Borehole Location: GPS: 32.408585°, -103.849342° Surface Elevation: 3209 ft

Borehole Number: BH-1 Borehole Diameter (in.): 8 Date Started: 2/2/2021 Date Finished: 2/2/2021

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								While Drilling <u>∇</u> Dry ft Upon Completion of Drilling <u>∇</u> Dry ft Remarks:		
5			10000									-CALICHE- Light tan, cemented, with occasional brown SILTY SAND (SM), with staining, with no odor	3	BH-1 (0-1')
			10000									-SM- SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor		BH-1 (2-3')
			10000											BH-1 (4-5')
			1200											BH-1 (6-7')
10												-SP- SAND: reddish brown, dry-moist, loose, non-cemented, with no staining, with no odor	9	BH-1 (9-10')
15			900											BH-1 (14-15')
20			1800											BH-1 (19-20')
25			1400											BH-1 (24-25')

Sampler Types: <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input type="checkbox"/> California <input type="checkbox"/> Test Pit	Operation Types: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Wash Rotary <input type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel	Notes: Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.
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Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling

212C-MD-02413	 TETRA TECH	LOG OF BORING BH-1	Page 2 of 2
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












Project Name: James E #001 Tubing Line Release

Borehole Location: GPS: 32.408585°, -103.849342° Surface Elevation: 3209 ft

Borehole Number: BH-1 Borehole Diameter (in.): 8 Date Started: 2/2/2021 Date Finished: 2/2/2021

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
30			1600										▽	Dry ft	BH-1 (29-30')
35			1100												BH-1 (34-35')
40			880												BH-1 (39-40')
45			150												BH-1 (44-45')

Bottom of borehole at 45.0 feet.

Sampler Types:  Split Spoon  Shelby  Bulk Sample  Grab Sample	 Acetate Liner  Vane Shear  California  Test Pit	Operation Types:  Mud Rotary  Continuous Flight Auger  Wash Rotary	 Hand Auger  Air Rotary  Direct Push  Core Barrel	Notes: Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.
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



Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling

212C-MD-02413	 TETRA TECH	LOG OF BORING BH-2	Page 1 of 1
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











Project Name: James E #001 Tubing Line Release

Borehole Location: GPS: 32.408463°, -103.849091° Surface Elevation: 3209 ft

Borehole Number: BH-2 Borehole Diameter (in.): 8 Date Started: 2/2/2021 Date Finished: 2/2/2021

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
			ExStik	PID								While Drilling <u>∇</u> Dry ft Upon Completion of Drilling <u>∇</u> Dry ft Remarks:			
			300									-CALICHE- Light tan, cemented, with occasional brown SILTY SAND (SM), with staining, with no odor		BH-2 (0-1')	
			260									-SM- SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor		BH-2 (2-3')	
			481											BH-2 (4-5')	
5			552											BH-2 (6-7')	
															7

Bottom of borehole at 7.0 feet.

Sampler Types:  Split Spoon  Shelby  Bulk Sample  Grab Sample	 Acetate Liner  Vane Shear  California  Test Pit	Operation Types:  Mud Rotary  Continuous Flight Auger  Wash Rotary	 Hand Auger  Air Rotary  Direct Push  Core Barrel	Notes: Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.
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Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling

212C-MD-02413	TETRA TECH	LOG OF BORING BH-3	Page 1 of 1
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Project Name: James E #001 Tubing Line Release

Borehole Location: GPS: 32.408301°, -103.849411° Surface Elevation: 3209 ft

Borehole Number: BH-3 Borehole Diameter (in.): 8 Date Started: 2/2/2021 Date Finished: 2/2/2021

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	
												While Drilling	Upon Completion of Drilling
			ExStik	PID								While Drilling <u>∇</u> Dry ft Upon Completion of Drilling <u>∇</u> Dry ft Remarks:	
			100									- CALICHE - Light tan, cemented, with occasional brown SILTY SAND (SM), with staining, with no odor	BH-3 (0-1')
			80.4									- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-3 (2-3')
			45.1									- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-3 (4-5')
5			59									- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-3 (6-7')
												Bottom of borehole at 7.0 feet.	

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.
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Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling

212C-MD-02413	TETRA TECH	LOG OF BORING BH-4	Page 1 of 1
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Project Name: James E #001 Tubing Line Release

Borehole Location: GPS: 32.408431°, -103.849773° Surface Elevation: 3209 ft

Borehole Number: BH-4 Borehole Diameter (in.): 8 Date Started: 2/2/2021 Date Finished: 2/2/2021

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	
												While Drilling	Upon Completion of Drilling
			ExStik	PID								While Drilling <u>∇</u> Dry ft Upon Completion of Drilling <u>∇</u> Dry ft Remarks:	
			690									- CALICHE - Light tan, cemented, with occasional brown SILTY SAND (SM), with staining, with no odor	BH-4 (0-1')
												- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-4 (2-3')
5			1000									- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-4 (4-5')
												- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-4 (6-7')
												- SM - SILTY SAND: Light reddish brown, dry, loose, non-cemented, with no staining, with no odor	BH-4 (6-7')

Bottom of borehole at 7.0 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.
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Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling

APPENDIX D

Laboratory Analytical Data



ANALYTICAL REPORT

February 15, 2021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

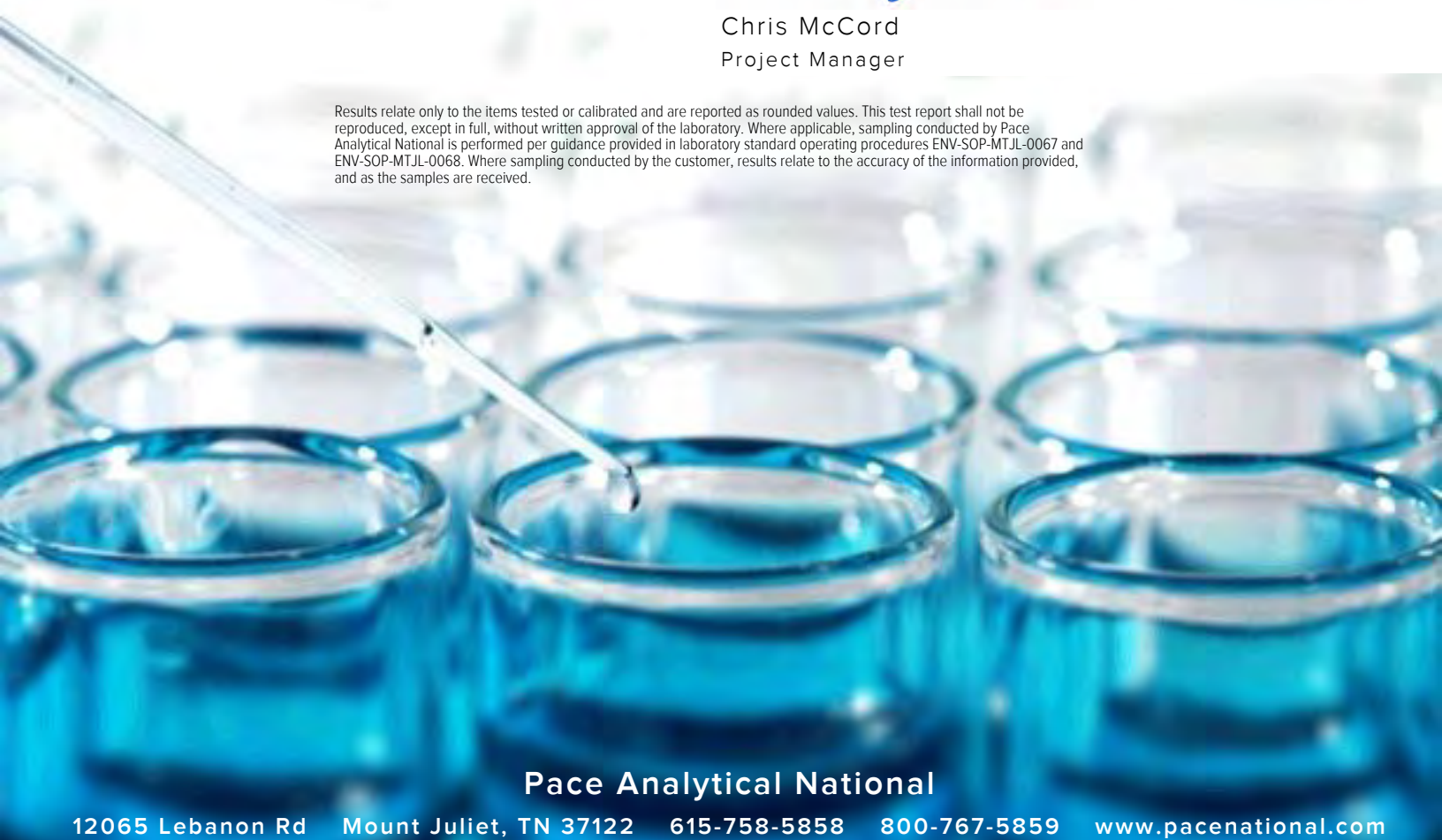
ConocoPhillips - Tetra Tech

Sample Delivery Group: L1315214
 Samples Received: 02/09/2021
 Project Number: 212-MD-02413
 Description: James E #001 Tubing Line Release
 Site: LEA COUNTY, NM
 Report To: Christian Llull
 901 West Wall
 Suite 100
 Midland, TX 79701

Entire Report Reviewed By:










Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	8	
Sr: Sample Results	9	
BH-1 (0-1) L1315214-01	9	
BH-1 (2-3) L1315214-02	10	
BH-1 (4-5) L1315214-03	11	
BH-1 (6-7) L1315214-04	12	
BH-1 (9-10) L1315214-05	13	
BH-1 (14-15) L1315214-06	14	
BH-1 (19-20) L1315214-07	15	
BH-1 (24-25) L1315214-08	16	
BH-1 (29-30) L1315214-09	17	
BH-1 (34-35) L1315214-10	18	
BH-1 (39-40) L1315214-11	19	
BH-1 (44-45) L1315214-12	20	
BH-2 (0-1) L1315214-13	21	
BH-2 (2-3) L1315214-14	22	
BH-2 (4-5) L1315214-15	23	
BH-2 (6-7) L1315214-16	24	
BH-3 (0-1) L1315214-17	25	
BH-3 (2-3) L1315214-18	26	
BH-3 (4-5) L1315214-19	27	
BH-3 (6-7) L1315214-20	28	
BH-4 (0-1) L1315214-21	29	
BH-4 (2-3) L1315214-22	30	
BH-4 (4-5) L1315214-23	31	
BH-4 (6-7) L1315214-24	32	
Qc: Quality Control Summary	33	
Total Solids by Method 2540 G-2011	33	
Wet Chemistry by Method 300.0	37	
Volatile Organic Compounds (GC) by Method 8015D/GRO	39	
Volatile Organic Compounds (GC/MS) by Method 8260B	42	
Semi-Volatile Organic Compounds (GC) by Method 8015	44	
Gl: Glossary of Terms	48	
Al: Accreditations & Locations	49	
Sc: Sample Chain of Custody	50	

BH-1 (0-1) L1315214-01 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:00
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619462	1	02/11/21 15:43	02/11/21 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	20	02/11/21 14:54	02/12/21 01:27	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619141	1	02/09/21 16:04	02/12/21 03:12	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/09/21 22:26	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620089	10	02/12/21 06:18	02/12/21 19:48	JDG	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn
 5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

BH-1 (2-3) L1315214-02 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:10
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619462	1	02/11/21 15:43	02/11/21 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	20	02/11/21 14:54	02/12/21 01:36	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619141	1	02/09/21 16:04	02/12/21 03:34	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/09/21 22:45	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620091	10	02/12/21 16:32	02/13/21 04:36	JDG	Mt. Juliet, TN

BH-1 (4-5) L1315214-03 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:20
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	10	02/11/21 14:54	02/12/21 01:46	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619141	1	02/09/21 16:04	02/12/21 03:56	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	2	02/09/21 16:04	02/09/21 23:04	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620091	1	02/12/21 16:32	02/13/21 03:56	JDG	Mt. Juliet, TN

BH-1 (6-7) L1315214-04 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:30
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	5	02/11/21 14:54	02/12/21 01:55	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619141	1	02/09/21 16:04	02/12/21 04:18	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/09/21 23:23	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620091	1	02/12/21 16:32	02/13/21 02:35	JDG	Mt. Juliet, TN

BH-1 (9-10) L1315214-05 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:40
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	1	02/11/21 14:54	02/12/21 02:05	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1	02/09/21 16:04	02/11/21 13:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/09/21 23:42	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620091	1	02/12/21 16:32	02/13/21 02:21	JDG	Mt. Juliet, TN

BH-1 (14-15) L1315214-06 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 10:50
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1619602	5	02/11/21 14:54	02/12/21 02:34	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1.01	02/09/21 16:04	02/11/21 13:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 00:01	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620091	1	02/12/21 16:32	02/13/21 02:48	JDG	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn

BH-1 (19-20) L1315214-07 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 11:00
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/13/21 21:18	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1	02/09/21 16:04	02/11/21 14:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 00:20	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620945	1	02/12/21 23:11	02/13/21 16:50	JN	Mt. Juliet, TN

5 Sr
 6 Qc
 7 Gl
 8 Al

BH-1 (24-25) L1315214-08 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 11:20
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/13/21 21:46	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1	02/09/21 16:04	02/11/21 14:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 00:38	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620945	1	02/12/21 23:11	02/13/21 17:03	JN	Mt. Juliet, TN

9 Sc

BH-1 (29-30) L1315214-09 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 11:40
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/13/21 22:05	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1	02/09/21 16:04	02/11/21 14:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 00:57	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 21:09	JDG	Mt. Juliet, TN

BH-1 (34-35) L1315214-10 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 12:00
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619463	1	02/11/21 13:24	02/11/21 13:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/13/21 22:14	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1619874	1	02/09/21 16:04	02/11/21 15:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 01:16	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 21:22	JDG	Mt. Juliet, TN

BH-1 (39-40) L1315214-11 Solid

Collected by Joe Tyler Collected date/time 02/02/21 12:20 Received date/time 02/09/21 08:15

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

1 Cp

2 Tc

3 Ss

4 Cn

BH-1 (44-45) L1315214-12 Solid

Collected by Joe Tyler Collected date/time 02/02/21 12:40 Received date/time 02/09/21 08:15

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

5 Sr

6 Qc

7 Gl

8 Al

BH-2 (0-1) L1315214-13 Solid

Collected by Joe Tyler Collected date/time 02/02/21 13:00 Received date/time 02/09/21 08:15

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

9 Sc

BH-2 (2-3) L1315214-14 Solid

Collected by Joe Tyler Collected date/time 02/02/21 13:10 Received date/time 02/09/21 08:15

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-2 (4-5) L1315214-15 Solid

Collected by Joe Tyler Collected date/time 02/02/21 13:20 Received date/time 02/09/21 08:15

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-2 (6-7) L1315214-16 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 13:30
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	1	02/13/21 14:39	02/13/21 23:30	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 03:14	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 03:10	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 22:42	JDG	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn
 5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

BH-3 (0-1) L1315214-17 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 14:00
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	1	02/13/21 14:39	02/13/21 23:40	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 03:34	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1618956	1	02/09/21 16:04	02/10/21 03:29	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 22:55	JDG	Mt. Juliet, TN

BH-3 (2-3) L1315214-18 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 14:10
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	1	02/13/21 14:39	02/13/21 23:49	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 03:55	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 02:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 23:09	JDG	Mt. Juliet, TN

BH-3 (4-5) L1315214-19 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 14:20
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	1	02/13/21 14:39	02/13/21 23:59	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 04:16	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 03:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 23:22	JDG	Mt. Juliet, TN

BH-3 (6-7) L1315214-20 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 14:30
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	1	02/13/21 14:39	02/14/21 00:08	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 04:37	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 03:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 23:35	JDG	Mt. Juliet, TN

BH-4 (0-1) L1315214-21 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 15:00
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/14/21 00:18	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 04:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 03:43	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/12/21 23:49	JDG	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn

BH-4 (2-3) L1315214-22 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 15:10
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619464	1	02/11/21 13:16	02/11/21 13:22	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/14/21 00:47	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 05:19	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 04:02	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/13/21 00:29	JDG	Mt. Juliet, TN

5 Sr
 6 Qc
 7 Gl
 8 Al

BH-4 (4-5) L1315214-23 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 15:20
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619478	1	02/11/21 12:41	02/11/21 12:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/14/21 00:56	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 05:39	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 04:21	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/13/21 00:42	JDG	Mt. Juliet, TN

9 Sc

BH-4 (6-7) L1315214-24 Solid

Collected by Joe Tyler
 Collected date/time 02/02/21 15:30
 Received date/time 02/09/21 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1619478	1	02/11/21 12:41	02/11/21 12:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1621055	5	02/13/21 14:39	02/14/21 01:06	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1620406	1	02/09/21 16:04	02/12/21 06:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1619010	1	02/09/21 16:04	02/10/21 04:40	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1620093	1	02/12/21 07:45	02/13/21 00:55	JDG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 02/02/21 10:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	02/11/2021 15:58	WG1619462

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	12800		201	436	20	02/12/2021 01:27	WG1619602

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	02/12/2021 03:12	WG1619141
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		02/12/2021 03:12	WG1619141

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000551	0.00118	1	02/09/2021 22:26	WG1618956
Toluene	U		0.00153	0.00590	1	02/09/2021 22:26	WG1618956
Ethylbenzene	U		0.000869	0.00295	1	02/09/2021 22:26	WG1618956
Total Xylenes	0.00142	J	0.00104	0.00767	1	02/09/2021 22:26	WG1618956
(S) Toluene-d8	96.3			75.0-131		02/09/2021 22:26	WG1618956
(S) 4-Bromofluorobenzene	101			67.0-138		02/09/2021 22:26	WG1618956
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		02/09/2021 22:26	WG1618956

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	820		17.5	43.6	10	02/12/2021 19:48	WG1620089
C28-C40 Oil Range	1590		2.99	43.6	10	02/12/2021 19:48	WG1620089
(S) o-Terphenyl	45.7			18.0-148		02/12/2021 19:48	WG1620089

Collected date/time: 02/02/21 10:10

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	02/11/2021 15:58	WG1619462

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	7750		200	434	20	02/12/2021 01:36	WG1619602

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	02/12/2021 03:34	WG1619141
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		02/12/2021 03:34	WG1619141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000548	0.00117	1	02/09/2021 22:45	WG1618956
Toluene	U		0.00152	0.00586	1	02/09/2021 22:45	WG1618956
Ethylbenzene	U		0.000864	0.00293	1	02/09/2021 22:45	WG1618956
Total Xylenes	U		0.00103	0.00762	1	02/09/2021 22:45	WG1618956
(S) Toluene-d8	95.8			75.0-131		02/09/2021 22:45	WG1618956
(S) 4-Bromofluorobenzene	100			67.0-138		02/09/2021 22:45	WG1618956
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		02/09/2021 22:45	WG1618956

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1440		17.5	43.4	10	02/13/2021 04:36	WG1620091
C28-C40 Oil Range	1730		2.98	43.4	10	02/13/2021 04:36	WG1620091
(S) o-Terphenyl	85.3			18.0-148		02/13/2021 04:36	WG1620091

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 02/02/21 10:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1970		106	230	10	02/12/2021 01:46	WG1619602

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0249	0.115	1	02/12/2021 03:56	WG1619141
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/12/2021 03:56	WG1619141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00114	0.00244	2	02/09/2021 23:04	WG1618956
Toluene	U		0.00318	0.0122	2	02/09/2021 23:04	WG1618956
Ethylbenzene	U		0.00180	0.00611	2	02/09/2021 23:04	WG1618956
Total Xylenes	U		0.00215	0.0159	2	02/09/2021 23:04	WG1618956
(S) Toluene-d8	95.4			75.0-131		02/09/2021 23:04	WG1618956
(S) 4-Bromofluorobenzene	101			67.0-138		02/09/2021 23:04	WG1618956
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		02/09/2021 23:04	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	28.7		1.85	4.59	1	02/13/2021 03:56	WG1620091
C28-C40 Oil Range	32.9		0.315	4.59	1	02/13/2021 03:56	WG1620091
(S) o-Terphenyl	64.7			18.0-148		02/13/2021 03:56	WG1620091

Collected date/time: 02/02/21 10:30

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	02/11/2021 13:30	WG1619463

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	833		49.2	107	5	02/12/2021 01:55	WG1619602

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	02/12/2021 04:18	WG1619141
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/12/2021 04:18	WG1619141

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000531	0.00114	1	02/09/2021 23:23	WG1618956
Toluene	U		0.00148	0.00568	1	02/09/2021 23:23	WG1618956
Ethylbenzene	U		0.000838	0.00284	1	02/09/2021 23:23	WG1618956
Total Xylenes	U		0.00100	0.00739	1	02/09/2021 23:23	WG1618956
(S) Toluene-d8	94.3			75.0-131		02/09/2021 23:23	WG1618956
(S) 4-Bromofluorobenzene	101			67.0-138		02/09/2021 23:23	WG1618956
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		02/09/2021 23:23	WG1618956

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.92	J	1.72	4.27	1	02/13/2021 02:35	WG1620091
C28-C40 Oil Range	1.74	B J	0.293	4.27	1	02/13/2021 02:35	WG1620091
(S) o-Terphenyl	56.8			18.0-148		02/13/2021 02:35	WG1620091

Collected date/time: 02/02/21 10:40

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.9		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	800		10.1	22.0	1	02/12/2021 02:05	WG1619602

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	02/11/2021 13:30	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 13:30	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000561	0.00120	1	02/09/2021 23:42	WG1618956
Toluene	U		0.00156	0.00601	1	02/09/2021 23:42	WG1618956
Ethylbenzene	U		0.000885	0.00300	1	02/09/2021 23:42	WG1618956
Total Xylenes	U		0.00106	0.00781	1	02/09/2021 23:42	WG1618956
(S) Toluene-d8	93.9			75.0-131		02/09/2021 23:42	WG1618956
(S) 4-Bromofluorobenzene	101			67.0-138		02/09/2021 23:42	WG1618956
(S) 1,2-Dichloroethane-d4	96.7			70.0-130		02/09/2021 23:42	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.81	J	1.77	4.40	1	02/13/2021 02:21	WG1620091
C28-C40 Oil Range	4.09	B J	0.302	4.40	1	02/13/2021 02:21	WG1620091
(S) o-Terphenyl	65.9			18.0-148		02/13/2021 02:21	WG1620091

Collected date/time: 02/02/21 10:50

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	955		49.5	108	5	02/12/2021 02:34	WG1619602

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1.01	02/11/2021 13:52	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 13:52	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000539	0.00115	1	02/10/2021 00:01	WG1618956
Toluene	U		0.00150	0.00577	1	02/10/2021 00:01	WG1618956
Ethylbenzene	U		0.000850	0.00288	1	02/10/2021 00:01	WG1618956
Total Xylenes	U		0.00102	0.00750	1	02/10/2021 00:01	WG1618956
(S) Toluene-d8	95.0			75.0-131		02/10/2021 00:01	WG1618956
(S) 4-Bromofluorobenzene	99.9			67.0-138		02/10/2021 00:01	WG1618956
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		02/10/2021 00:01	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.31	1	02/13/2021 02:48	WG1620091
C28-C40 Oil Range	U		0.295	4.31	1	02/13/2021 02:48	WG1620091
(S) o-Terphenyl	51.8			18.0-148		02/13/2021 02:48	WG1620091

Collected date/time: 02/02/21 11:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2120	<u>J6</u>	49.9	109	5	02/13/2021 21:18	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.109	1	02/11/2021 14:14	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		02/11/2021 14:14	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000547	0.00117	1	02/10/2021 00:20	WG1618956
Toluene	U		0.00152	0.00585	1	02/10/2021 00:20	WG1618956
Ethylbenzene	U		0.000863	0.00293	1	02/10/2021 00:20	WG1618956
Total Xylenes	U		0.00103	0.00761	1	02/10/2021 00:20	WG1618956
(S) Toluene-d8	94.9			75.0-131		02/10/2021 00:20	WG1618956
(S) 4-Bromofluorobenzene	99.4			67.0-138		02/10/2021 00:20	WG1618956
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		02/10/2021 00:20	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.36		1.75	4.34	1	02/13/2021 16:50	WG1620945
C28-C40 Oil Range	5.46		0.297	4.34	1	02/13/2021 16:50	WG1620945
(S) o-Terphenyl	72.9			18.0-148		02/13/2021 16:50	WG1620945

Collected date/time: 02/02/21 11:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1640		49.3	107	5	02/13/2021 21:46	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	02/11/2021 14:36	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 14:36	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000533	0.00114	1	02/10/2021 00:38	WG1618956
Toluene	U		0.00148	0.00571	1	02/10/2021 00:38	WG1618956
Ethylbenzene	U		0.000842	0.00285	1	02/10/2021 00:38	WG1618956
Total Xylenes	U		0.00100	0.00742	1	02/10/2021 00:38	WG1618956
(S) Toluene-d8	96.2			75.0-131		02/10/2021 00:38	WG1618956
(S) 4-Bromofluorobenzene	99.9			67.0-138		02/10/2021 00:38	WG1618956
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		02/10/2021 00:38	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.34		1.72	4.28	1	02/13/2021 17:03	WG1620945
C28-C40 Oil Range	6.03		0.293	4.28	1	02/13/2021 17:03	WG1620945
(S) o-Terphenyl	85.5			18.0-148		02/13/2021 17:03	WG1620945

Collected date/time: 02/02/21 11:40

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.9		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1730		53.5	116	5	02/13/2021 22:05	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	02/11/2021 14:58	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 14:58	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000620	0.00133	1	02/10/2021 00:57	WG1618956
Toluene	U		0.00173	0.00664	1	02/10/2021 00:57	WG1618956
Ethylbenzene	U		0.000978	0.00332	1	02/10/2021 00:57	WG1618956
Total Xylenes	U		0.00117	0.00863	1	02/10/2021 00:57	WG1618956
(S) Toluene-d8	96.5			75.0-131		02/10/2021 00:57	WG1618956
(S) 4-Bromofluorobenzene	100			67.0-138		02/10/2021 00:57	WG1618956
(S) 1,2-Dichloroethane-d4	90.2			70.0-130		02/10/2021 00:57	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.43	J	1.87	4.65	1	02/12/2021 21:09	WG1620093
C28-C40 Oil Range	5.38		0.319	4.65	1	02/12/2021 21:09	WG1620093
(S) o-Terphenyl	81.5			18.0-148		02/12/2021 21:09	WG1620093

Collected date/time: 02/02/21 12:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.8		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1190		51.8	113	5	02/13/2021 22:14	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0244	0.113	1	02/11/2021 15:20	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 15:20	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000585	0.00125	1	02/10/2021 01:16	WG1618956
Toluene	U		0.00163	0.00626	1	02/10/2021 01:16	WG1618956
Ethylbenzene	U		0.000923	0.00313	1	02/10/2021 01:16	WG1618956
Total Xylenes	U		0.00110	0.00814	1	02/10/2021 01:16	WG1618956
(S) Toluene-d8	96.8			75.0-131		02/10/2021 01:16	WG1618956
(S) 4-Bromofluorobenzene	101			67.0-138		02/10/2021 01:16	WG1618956
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		02/10/2021 01:16	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.81	4.50	1	02/12/2021 21:22	WG1620093
C28-C40 Oil Range	3.64	J	0.308	4.50	1	02/12/2021 21:22	WG1620093
(S) o-Terphenyl	86.0			18.0-148		02/12/2021 21:22	WG1620093

Collected date/time: 02/02/21 12:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	02/11/2021 13:30	WG1619463

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	931		50.8	110	5	02/13/2021 22:24	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	02/11/2021 15:42	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		02/11/2021 15:42	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000564	0.00121	1	02/10/2021 01:35	WG1618956
Toluene	U		0.00157	0.00604	1	02/10/2021 01:35	WG1618956
Ethylbenzene	U		0.000890	0.00302	1	02/10/2021 01:35	WG1618956
Total Xylenes	U		0.00106	0.00785	1	02/10/2021 01:35	WG1618956
(S) Toluene-d8	96.5			75.0-131		02/10/2021 01:35	WG1618956
(S) 4-Bromofluorobenzene	99.7			67.0-138		02/10/2021 01:35	WG1618956
(S) 1,2-Dichloroethane-d4	89.6			70.0-130		02/10/2021 01:35	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.78	4.41	1	02/12/2021 21:35	WG1620093
C28-C40 Oil Range	0.409	J	0.302	4.41	1	02/12/2021 21:35	WG1620093
(S) o-Terphenyl	79.3			18.0-148		02/12/2021 21:35	WG1620093

Collected date/time: 02/02/21 12:40

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	94.7		1	02/11/2021 13:30	WG1619463

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	199		9.72	21.1	1	02/13/2021 22:52	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	02/11/2021 16:04	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		02/11/2021 16:04	WG1619874

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000520	0.00111	1	02/10/2021 01:54	WG1618956
Toluene	U		0.00145	0.00556	1	02/10/2021 01:54	WG1618956
Ethylbenzene	U		0.000820	0.00278	1	02/10/2021 01:54	WG1618956
Total Xylenes	U		0.000979	0.00723	1	02/10/2021 01:54	WG1618956
(S) Toluene-d8	97.4			75.0-131		02/10/2021 01:54	WG1618956
(S) 4-Bromofluorobenzene	98.4			67.0-138		02/10/2021 01:54	WG1618956
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		02/10/2021 01:54	WG1618956

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	02/12/2021 21:49	WG1620093
C28-C40 Oil Range	U		0.289	4.23	1	02/12/2021 21:49	WG1620093
(S) o-Terphenyl	69.8			18.0-148		02/12/2021 21:49	WG1620093

Collected date/time: 02/02/21 13:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	02/11/2021 13:22	WG1619464

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	275		9.45	20.5	1	02/13/2021 23:02	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1.01	02/11/2021 16:27	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		02/11/2021 16:27	WG1619874

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000492	0.00105	1	02/10/2021 02:13	WG1618956
Toluene	U		0.00137	0.00527	1	02/10/2021 02:13	WG1618956
Ethylbenzene	U		0.000777	0.00264	1	02/10/2021 02:13	WG1618956
Total Xylenes	U		0.000928	0.00685	1	02/10/2021 02:13	WG1618956
(S) Toluene-d8	97.6			75.0-131		02/10/2021 02:13	WG1618956
(S) 4-Bromofluorobenzene	97.9			67.0-138		02/10/2021 02:13	WG1618956
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		02/10/2021 02:13	WG1618956

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.33	J	1.65	4.11	1	02/12/2021 22:02	WG1620093
C28-C40 Oil Range	5.55		0.281	4.11	1	02/12/2021 22:02	WG1620093
(S) o-Terphenyl	70.6			18.0-148		02/12/2021 22:02	WG1620093

Collected date/time: 02/02/21 13:10

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	02/11/2021 13:22	WG1619464

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	475		9.52	20.7	1	02/13/2021 23:11	WG1621055

5 Sr

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.103	1	02/11/2021 16:49	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		02/11/2021 16:49	WG1619874

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000500	0.00107	1	02/10/2021 02:32	WG1618956
Toluene	U		0.00139	0.00535	1	02/10/2021 02:32	WG1618956
Ethylbenzene	U		0.000788	0.00267	1	02/10/2021 02:32	WG1618956
Total Xylenes	U		0.000941	0.00695	1	02/10/2021 02:32	WG1618956
(S) Toluene-d8	98.0			75.0-131		02/10/2021 02:32	WG1618956
(S) 4-Bromofluorobenzene	96.3			67.0-138		02/10/2021 02:32	WG1618956
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		02/10/2021 02:32	WG1618956

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.14	1	02/12/2021 22:15	WG1620093
C28-C40 Oil Range	2.97	J	0.284	4.14	1	02/12/2021 22:15	WG1620093
(S) o-Terphenyl	85.3			18.0-148		02/12/2021 22:15	WG1620093

Collected date/time: 02/02/21 13:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.0		1	02/11/2021 13:22	WG1619464

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	590		9.58	20.8	1	02/13/2021 23:21	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	02/11/2021 17:14	WG1619874
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		02/11/2021 17:14	WG1619874

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000505	0.00108	1	02/10/2021 02:51	WG1618956
Toluene	U		0.00141	0.00541	1	02/10/2021 02:51	WG1618956
Ethylbenzene	U		0.000798	0.00271	1	02/10/2021 02:51	WG1618956
Total Xylenes	U		0.000953	0.00704	1	02/10/2021 02:51	WG1618956
(S) Toluene-d8	96.5			75.0-131		02/10/2021 02:51	WG1618956
(S) 4-Bromofluorobenzene	99.1			67.0-138		02/10/2021 02:51	WG1618956
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		02/10/2021 02:51	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.68	4.16	1	02/12/2021 22:29	WG1620093
C28-C40 Oil Range	U		0.285	4.16	1	02/12/2021 22:29	WG1620093
(S) o-Terphenyl	90.3			18.0-148		02/12/2021 22:29	WG1620093

Collected date/time: 02/02/21 13:30

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	02/11/2021 13:22	WG1619464

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	622		9.57	20.8	1	02/13/2021 23:30	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	02/12/2021 03:14	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	98.0			77.0-120		02/12/2021 03:14	WG1620406

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000504	0.00108	1	02/10/2021 03:10	WG1618956
Toluene	U		0.00140	0.00540	1	02/10/2021 03:10	WG1618956
Ethylbenzene	U		0.000796	0.00270	1	02/10/2021 03:10	WG1618956
Total Xylenes	U		0.000950	0.00702	1	02/10/2021 03:10	WG1618956
(S) Toluene-d8	95.9			75.0-131		02/10/2021 03:10	WG1618956
(S) 4-Bromofluorobenzene	99.4			67.0-138		02/10/2021 03:10	WG1618956
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		02/10/2021 03:10	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.08	J	1.67	4.16	1	02/12/2021 22:42	WG1620093
C28-C40 Oil Range	2.62	J	0.285	4.16	1	02/12/2021 22:42	WG1620093
(S) o-Terphenyl	79.2			18.0-148		02/12/2021 22:42	WG1620093

Collected date/time: 02/02/21 14:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	02/11/2021 13:22	WG1619464

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	96.9		9.50	20.7	1	02/13/2021 23:40	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	02/12/2021 03:34	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.2			77.0-120		02/12/2021 03:34	WG1620406

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000498	0.00107	1	02/10/2021 03:29	WG1618956
Toluene	U		0.00139	0.00533	1	02/10/2021 03:29	WG1618956
Ethylbenzene	U		0.000786	0.00267	1	02/10/2021 03:29	WG1618956
Total Xylenes	U		0.000938	0.00693	1	02/10/2021 03:29	WG1618956
(S) Toluene-d8	97.1			75.0-131		02/10/2021 03:29	WG1618956
(S) 4-Bromofluorobenzene	102			67.0-138		02/10/2021 03:29	WG1618956
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		02/10/2021 03:29	WG1618956

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.69	J	1.66	4.13	1	02/12/2021 22:55	WG1620093
C28-C40 Oil Range	2.90	J	0.283	4.13	1	02/12/2021 22:55	WG1620093
(S) o-Terphenyl	75.8			18.0-148		02/12/2021 22:55	WG1620093

Collected date/time: 02/02/21 14:10

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.6		1	02/11/2021 13:22	WG1619464

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	86.6		9.73	21.2	1	02/13/2021 23:49	WG1621055

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	02/12/2021 03:55	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		02/12/2021 03:55	WG1620406

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000521	0.00112	1	02/10/2021 02:46	WG1619010
Toluene	U		0.00145	0.00558	1	02/10/2021 02:46	WG1619010
Ethylbenzene	U		0.000822	0.00279	1	02/10/2021 02:46	WG1619010
Total Xylenes	U		0.000981	0.00725	1	02/10/2021 02:46	WG1619010
(S) Toluene-d8	96.6			75.0-131		02/10/2021 02:46	WG1619010
(S) 4-Bromofluorobenzene	92.9			67.0-138		02/10/2021 02:46	WG1619010
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		02/10/2021 02:46	WG1619010

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	02/12/2021 23:09	WG1620093
C28-C40 Oil Range	U		0.290	4.23	1	02/12/2021 23:09	WG1620093
(S) o-Terphenyl	70.9			18.0-148		02/12/2021 23:09	WG1620093

Collected date/time: 02/02/21 14:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	02/11/2021 13:22	WG1619464

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	23.2		9.85	21.4	1	02/13/2021 23:59	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	02/12/2021 04:16	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.4			77.0-120		02/12/2021 04:16	WG1620406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000532	0.00114	1	02/10/2021 03:05	WG1619010
Toluene	U		0.00148	0.00570	1	02/10/2021 03:05	WG1619010
Ethylbenzene	U		0.000840	0.00285	1	02/10/2021 03:05	WG1619010
Total Xylenes	U		0.00100	0.00741	1	02/10/2021 03:05	WG1619010
(S) Toluene-d8	95.1			75.0-131		02/10/2021 03:05	WG1619010
(S) 4-Bromofluorobenzene	92.5			67.0-138		02/10/2021 03:05	WG1619010
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		02/10/2021 03:05	WG1619010

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	02/12/2021 23:22	WG1620093
C28-C40 Oil Range	U		0.293	4.28	1	02/12/2021 23:22	WG1620093
(S) o-Terphenyl	76.3			18.0-148		02/12/2021 23:22	WG1620093

Collected date/time: 02/02/21 14:30

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	93.2		1	02/11/2021 13:22	WG1619464

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	51.8		9.87	21.5	1	02/14/2021 00:08	WG1621055

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	02/12/2021 04:37	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120		02/12/2021 04:37	WG1620406

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000535	0.00115	1	02/10/2021 03:24	WG1619010
Toluene	U		0.00149	0.00573	1	02/10/2021 03:24	WG1619010
Ethylbenzene	U		0.000845	0.00287	1	02/10/2021 03:24	WG1619010
Total Xylenes	U		0.00101	0.00745	1	02/10/2021 03:24	WG1619010
(S) Toluene-d8	96.1			75.0-131		02/10/2021 03:24	WG1619010
(S) 4-Bromofluorobenzene	93.1			67.0-138		02/10/2021 03:24	WG1619010
(S) 1,2-Dichloroethane-d4	87.8			70.0-130		02/10/2021 03:24	WG1619010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.73	4.29	1	02/12/2021 23:35	WG1620093
C28-C40 Oil Range	U		0.294	4.29	1	02/12/2021 23:35	WG1620093
(S) o-Terphenyl	73.4			18.0-148		02/12/2021 23:35	WG1620093

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 02/02/21 15:00

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	02/11/2021 13:22	WG1619464

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2470		47.9	104	5	02/14/2021 00:18	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	02/12/2021 04:58	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-120		02/12/2021 04:58	WG1620406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000505	0.00108	1	02/10/2021 03:43	WG1619010
Toluene	U		0.00141	0.00540	1	02/10/2021 03:43	WG1619010
Ethylbenzene	U		0.000797	0.00270	1	02/10/2021 03:43	WG1619010
Total Xylenes	U		0.000951	0.00703	1	02/10/2021 03:43	WG1619010
(S) Toluene-d8	97.2			75.0-131		02/10/2021 03:43	WG1619010
(S) 4-Bromofluorobenzene	92.6			67.0-138		02/10/2021 03:43	WG1619010
(S) 1,2-Dichloroethane-d4	88.5			70.0-130		02/10/2021 03:43	WG1619010

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.16	1	02/12/2021 23:49	WG1620093
C28-C40 Oil Range	0.438	J	0.285	4.16	1	02/12/2021 23:49	WG1620093
(S) o-Terphenyl	63.1			18.0-148		02/12/2021 23:49	WG1620093

Collected date/time: 02/02/21 15:10

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	02/11/2021 13:22	WG1619464

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1830		47.9	104	5	02/14/2021 00:47	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	02/12/2021 05:19	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		02/12/2021 05:19	WG1620406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000505	0.00108	1	02/10/2021 04:02	WG1619010
Toluene	U		0.00141	0.00541	1	02/10/2021 04:02	WG1619010
Ethylbenzene	U		0.000797	0.00270	1	02/10/2021 04:02	WG1619010
Total Xylenes	U		0.000952	0.00703	1	02/10/2021 04:02	WG1619010
(S) Toluene-d8	96.4			75.0-131		02/10/2021 04:02	WG1619010
(S) 4-Bromofluorobenzene	93.2			67.0-138		02/10/2021 04:02	WG1619010
(S) 1,2-Dichloroethane-d4	87.6			70.0-130		02/10/2021 04:02	WG1619010

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.16	1	02/13/2021 00:29	WG1620093
C28-C40 Oil Range	U		0.285	4.16	1	02/13/2021 00:29	WG1620093
(S) o-Terphenyl	68.5			18.0-148		02/13/2021 00:29	WG1620093

Collected date/time: 02/02/21 15:20

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.6		1	02/11/2021 12:49	WG1619478

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1360		48.6	106	5	02/14/2021 00:56	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	02/12/2021 05:39	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120		02/12/2021 05:39	WG1620406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000520	0.00111	1	02/10/2021 04:21	WG1619010
Toluene	U		0.00145	0.00557	1	02/10/2021 04:21	WG1619010
Ethylbenzene	U		0.000821	0.00279	1	02/10/2021 04:21	WG1619010
Total Xylenes	U		0.000981	0.00724	1	02/10/2021 04:21	WG1619010
(S) Toluene-d8	96.1			75.0-131		02/10/2021 04:21	WG1619010
(S) 4-Bromofluorobenzene	93.3			67.0-138		02/10/2021 04:21	WG1619010
(S) 1,2-Dichloroethane-d4	87.0			70.0-130		02/10/2021 04:21	WG1619010

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	02/13/2021 00:42	WG1620093
C28-C40 Oil Range	U		0.290	4.23	1	02/13/2021 00:42	WG1620093
(S) o-Terphenyl	72.4			18.0-148		02/13/2021 00:42	WG1620093

Collected date/time: 02/02/21 15:30

L1315214

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	02/11/2021 12:49	WG1619478

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1410		48.7	106	5	02/14/2021 01:06	WG1621055

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	02/12/2021 06:00	WG1620406
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-120		02/12/2021 06:00	WG1620406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000522	0.00112	1	02/10/2021 04:40	WG1619010
Toluene	U		0.00145	0.00559	1	02/10/2021 04:40	WG1619010
Ethylbenzene	U		0.000824	0.00280	1	02/10/2021 04:40	WG1619010
Total Xylenes	U		0.000984	0.00727	1	02/10/2021 04:40	WG1619010
(S) Toluene-d8	96.7			75.0-131		02/10/2021 04:40	WG1619010
(S) 4-Bromofluorobenzene	93.0			67.0-138		02/10/2021 04:40	WG1619010
(S) 1,2-Dichloroethane-d4	89.4			70.0-130		02/10/2021 04:40	WG1619010

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.71	4.24	1	02/13/2021 00:55	WG1620093
C28-C40 Oil Range	U		0.290	4.24	1	02/13/2021 00:55	WG1620093
(S) o-Terphenyl	77.4			18.0-148		02/13/2021 00:55	WG1620093

Total Solids by Method 2540 G-2011

[L1315214-01,02](#)

Method Blank (MB)

(MB) R3621956-1 02/11/21 15:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00200			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1315205-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1315205-11 02/11/21 15:58 • (DUP) R3621956-3 02/11/21 15:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	84.8	86.5	1	2.01		10

Laboratory Control Sample (LCS)

(LCS) R3621956-2 02/11/21 15:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Total Solids by Method 2540 G-2011

[L1315214-03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3622003-1 02/11/21 13:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1315214-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1315214-08 02/11/21 13:30 • (DUP) R3622003-3 02/11/21 13:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	93.4	93.6	1	0.260		10

Laboratory Control Sample (LCS)

(LCS) R3622003-2 02/11/21 13:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Total Solids by Method 2540 G-2011

[L1315214-13,14,15,16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3621997-1 02/11/21 13:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1315214-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1315214-19 02/11/21 13:22 • (DUP) R3621997-3 02/11/21 13:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	93.4	93.3	1	0.139		10

Laboratory Control Sample (LCS)

(LCS) R3621997-2 02/11/21 13:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Total Solids by Method 2540 G-2011

[L1315214-23,24](#)

Method Blank (MB)

(MB) R3621987-1 02/11/21 12:49

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1315221-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1315221-01 02/11/21 12:49 • (DUP) R3621987-3 02/11/21 12:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	72.3	78.4	1	8.10		10

Laboratory Control Sample (LCS)

(LCS) R3621987-2 02/11/21 12:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

Wet Chemistry by Method 300.0

[L1315214-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3621915-1 02/11/21 19:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1314754-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1314754-01 02/11/21 23:05 • (DUP) R3621915-3 02/11/21 23:14

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	34.1	29.9	1	13.1		20

L1315663-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1315663-05 02/12/21 03:21 • (DUP) R3621915-6 02/12/21 03:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1630	1540	5	5.37		20

Laboratory Control Sample (LCS)

(LCS) R3621915-2 02/11/21 19:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	194	97.1	90.0-110	

L1315214-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315214-01 02/12/21 00:58 • (MS) R3621915-4 02/12/21 01:08 • (MSD) R3621915-5 02/12/21 01:17

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	545	13700	15000	14700	254	199	1	80.0-120	<u>EV</u>	<u>EV</u>	2.01	20

Wet Chemistry by Method 300.0

[L1315214-07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3622393-1 02/13/21 20:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1315214-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1315214-08 02/13/21 21:46 • (DUP) R3622393-5 02/13/21 21:55

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1640	1690	5	3.02		20

L1315214-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1315214-24 02/14/21 01:06 • (DUP) R3622393-6 02/14/21 01:15

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1410	1210	5	15.3		20

Laboratory Control Sample (LCS)

(LCS) R3622393-2 02/13/21 20:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	195	97.7	90.0-110	

L1315214-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315214-07 02/13/21 21:18 • (MS) R3622393-3 02/13/21 21:27 • (MSD) R3622393-4 02/13/21 21:36

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	109	2120	2590	2520	85.3	72.6	5	80.0-120		J6	2.68	20

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1315214-01,02,03,04](#)

Method Blank (MB)

(MB) R3622002-1 02/11/21 22:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	117			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3622002-2 02/11/21 23:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.08	74.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120	

5 Sr

6 Qc

7 Gl

L1315190-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315190-01 02/12/21 07:39 • (MS) R3622002-3 02/12/21 08:01 • (MSD) R3622002-4 02/12/21 08:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	623	364	896	1210	85.5	136	100	10.0-151		J3	30.0	28
(S) a,a,a-Trifluorotoluene(FID)					109	116		77.0-120				

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1315214-05,06,07,08,09,10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R3621832-3 02/11/21 11:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3621832-1 02/11/21 10:00 • (LCSD) R3621832-2 02/11/21 10:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	5.50	5.09	5.73	92.5	104	72.0-127			11.8	20
(S) a,a,a-Trifluorotoluene(FID)				102	102	77.0-120				

L1314775-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314775-01 02/11/21 13:08 • (MS) R3621832-4 02/11/21 19:48 • (MSD) R3621832-5 02/11/21 20:10

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	138	4.77	156	193	113	139	25	10.0-151			21.2	28
(S) a,a,a-Trifluorotoluene(FID)					110	117		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1315214-16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3622509-2 02/11/21 22:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3622509-1 02/11/21 21:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.12	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

L1316198-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1316198-01 02/12/21 02:32 • (MS) R3622509-3 02/12/21 07:03 • (MSD) R3622509-4 02/12/21 07:23

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	232	U	157	150	67.7	64.6	28.7	10.0-151			4.78	28
(S) a,a,a-Trifluorotoluene(FID)					105	105		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1315214-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3621596-2 02/09/21 21:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	97.1			75.0-131
(S) 4-Bromofluorobenzene	98.2			67.0-138
(S) 1,2-Dichloroethane-d4	94.0			70.0-130

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS)

(LCS) R3621596-1 02/09/21 20:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.124	99.2	70.0-123	
Ethylbenzene	0.125	0.113	90.4	74.0-126	
Toluene	0.125	0.107	85.6	75.0-121	
Xylenes, Total	0.375	0.353	94.1	72.0-127	
(S) Toluene-d8			89.4	75.0-131	
(S) 4-Bromofluorobenzene			109	67.0-138	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

L1315214-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315214-05 02/09/21 23:42 • (MS) R3621596-3 02/10/21 03:48 • (MSD) R3621596-4 02/10/21 04:07

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.150	U	0.203	0.202	135	134	1	10.0-149			0.593	37
Ethylbenzene	0.150	U	0.185	0.190	123	126	1	10.0-160			2.56	38
Toluene	0.150	U	0.189	0.190	126	126	1	10.0-156			0.635	38
Xylenes, Total	0.450	U	0.556	0.561	123	125	1	10.0-160			0.860	38
(S) Toluene-d8					96.0	95.5		75.0-131				
(S) 4-Bromofluorobenzene					99.7	100		67.0-138				
(S) 1,2-Dichloroethane-d4					87.4	92.6		70.0-130				

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1315214-18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3621568-2 02/10/21 01:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000525	↓	0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	96.8			75.0-131
(S) 4-Bromofluorobenzene	96.1			67.0-138
(S) 1,2-Dichloroethane-d4	96.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3621568-1 02/09/21 22:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.117	93.6	70.0-123	
Ethylbenzene	0.125	0.101	80.8	74.0-126	
Toluene	0.125	0.104	83.2	75.0-121	
Xylenes, Total	0.375	0.305	81.3	72.0-127	
(S) Toluene-d8			92.8	75.0-131	
(S) 4-Bromofluorobenzene			99.2	67.0-138	
(S) 1,2-Dichloroethane-d4			98.3	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1315214-01](#)

Method Blank (MB)

(MB) R3622321-1 02/12/21 15:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.795	J	0.274	4.00
(S) o-Terphenyl	78.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3622321-2 02/12/21 15:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.1	76.2	50.0-150	
(S) o-Terphenyl			72.1	18.0-148	

L1315655-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315655-01 02/12/21 16:28 • (MS) R3622321-3 02/12/21 16:41 • (MSD) R3622321-4 02/12/21 16:55

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	55.0	U	37.3	49.5	67.7	89.3	1	50.0-150		J3	28.1	20
(S) o-Terphenyl					62.7	83.6		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1315214-02.03.04.05.06](#)

Method Blank (MB)

(MB) R3622277-1 02/12/21 23:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	1.70	J	0.274	4.00
(S) o-Terphenyl	69.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3622277-2 02/12/21 23:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.6	75.2	50.0-150	
(S) o-Terphenyl			94.6	18.0-148	

L1314998-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314998-01 02/12/21 23:53 • (MS) R3622277-3 02/13/21 00:06 • (MSD) R3622277-4 02/13/21 00:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.9	U	47.9	47.9	75.5	75.0	1	50.0-150			0.000	20
(S) o-Terphenyl					89.1	86.0		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1315214-09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3622322-1 02/12/21 16:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	88.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3622322-2 02/12/21 16:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	47.4	94.8	50.0-150	
(S) o-Terphenyl			89.5	18.0-148	

L1315214-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1315214-21 02/12/21 23:49 • (MS) R3622322-3 02/13/21 00:02 • (MSD) R3622322-4 02/13/21 00:16

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	51.5	U	42.5	39.9	82.6	78.4	1	50.0-150			6.31	20
(S) o-Terphenyl					71.1	68.7		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1315214-07.08](#)

Method Blank (MB)

(MB) R3622344-1 02/13/21 16:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	71.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3622344-2 02/13/21 16:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	34.3	68.6	50.0-150	
(S) o-Terphenyl			69.7	18.0-148	

L1316754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1316754-01 02/13/21 19:57 • (MS) R3622344-3 02/13/21 20:10 • (MSD) R3622344-4 02/13/21 20:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	48.8	41.4	63.5	72.2	45.3	63.4	1	50.0-150	J6		12.8	20
(S) o-Terphenyl					49.1	45.5		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	AZLA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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ANSI National Accreditation Board	L2239

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California	2961	Oregon	CA300002
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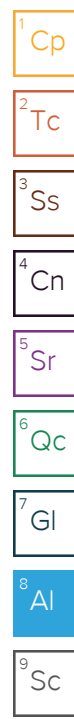
Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1
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Texas	T104704328-20-18
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¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

61315214

Client Name: Conoco Phillips **Site Manager:** Christian Llull

Project Name: James E #001 Tubing Line Release **Contact Info:** Email: christian.llull@tetrattech.com
Phone: (512) 338-1667

Project Location: Lea County, New Mexico **Project #:** 212C-MD-02413

Invoice to: Accounts Payable
901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical **Sampler Signature:** Joe Tyler

Comments: COPTETRA Acctnum

**ANALYSIS REQUEST
(Circle or Specify Method No.)**

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8062 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015F	HOLD						
		YEAR: 2021	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE																								NONE					
-11	BH-1 (39'-40')	02/02/21	1220	X				X		1	N	X	X																									
-12	BH-1 (44'-45')	02/02/21	1240	X				X		1	N	X	X																									
-13	BH-2 (0'-1')	02/02/21	1300	X				X		1	N	X	X																									
-14	BH-2 (2'-3')	02/02/21	1310	X				X		1	N	X	X																									
-15	BH-2 (4'-5')	02/02/21	1320	X				X		1	N	X	X																									
-16	BH-2 (6'-7')	02/02/21	1330	X				X		1	N	X	X																									
-17	BH-3 (0'-1')	02/02/21	1400	X				X		1	N	X	X																									
-18	BH-3 (2'-3')	02/02/21	1410	X				X		1	N	X	X																									
-19	BH-3 (4'-5')	02/02/21	1420	X				X		1	N	X	X																									
-20	BH-3 (6'-7')	02/02/21	1430	X				X		1	N	X	X																									

Relinquished by: <i>Joe Tyler</i>	Date: 2-8-21	Time: 14:30	Received by: <i>[Signature]</i>	Date: 2-8-21	Time: 14:30
Relinquished by: <i>[Signature]</i>	Date: 2-8-21	Time: 15:30	Received by: <i>FedEx</i>	Date: 2-8-21	Time: 15:30
Relinquished by:	Date:	Time:	Received by: <i>Verley mella</i>	Date: 2/9/21	Time: 8:15

LAB USE ONLY

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: _____

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

1.7-1.6 kg



Tetra Tech, Inc.

901 West Wall Street, Suite 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

21315214

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	James E #001 Tubing Line Release	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02413
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments: COPTETRA Acctnum			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	FCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD			
		YEAR: 2021	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE																							NONE		
-21	BH-4 (0'-1')	02/02/21	1500		X			X			1	N	X	X													X							
-22	BH-4 (2'-3')	02/02/21	1510		X			X			1	N	X	X													X							
-27	BH-4 (4'-5')	02/02/21	1520		X			X			1	N	X	X													X							
-29	BH-4 (6'-7')	02/02/21	1530		X			X			1	N	X	X													X							

Sample Receipt Checklist

COC Seal Present/intact: Y N If Applicable

COC Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RAD Screen <0.5 mR/hr: Y N

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Joe Tyler</i>	2-8-21	14:30	<i>Christian Llull</i>	2-8-21	14:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Joe Tyler</i>	2-8-21	15:30	<i>Tetra Tech</i>	2-8-21	15:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>Valley Miller</i>	2/8/21	8:15

LAB USE ONLY	REMARKS:
	<input checked="" type="checkbox"/> Standard
	<input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.
	<input type="checkbox"/> Rush Charges Authorized
Sample Temperature	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

1.7-1=1.6



ANALYTICAL REPORT

March 16, 2021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

ConocoPhillips - Tetra Tech

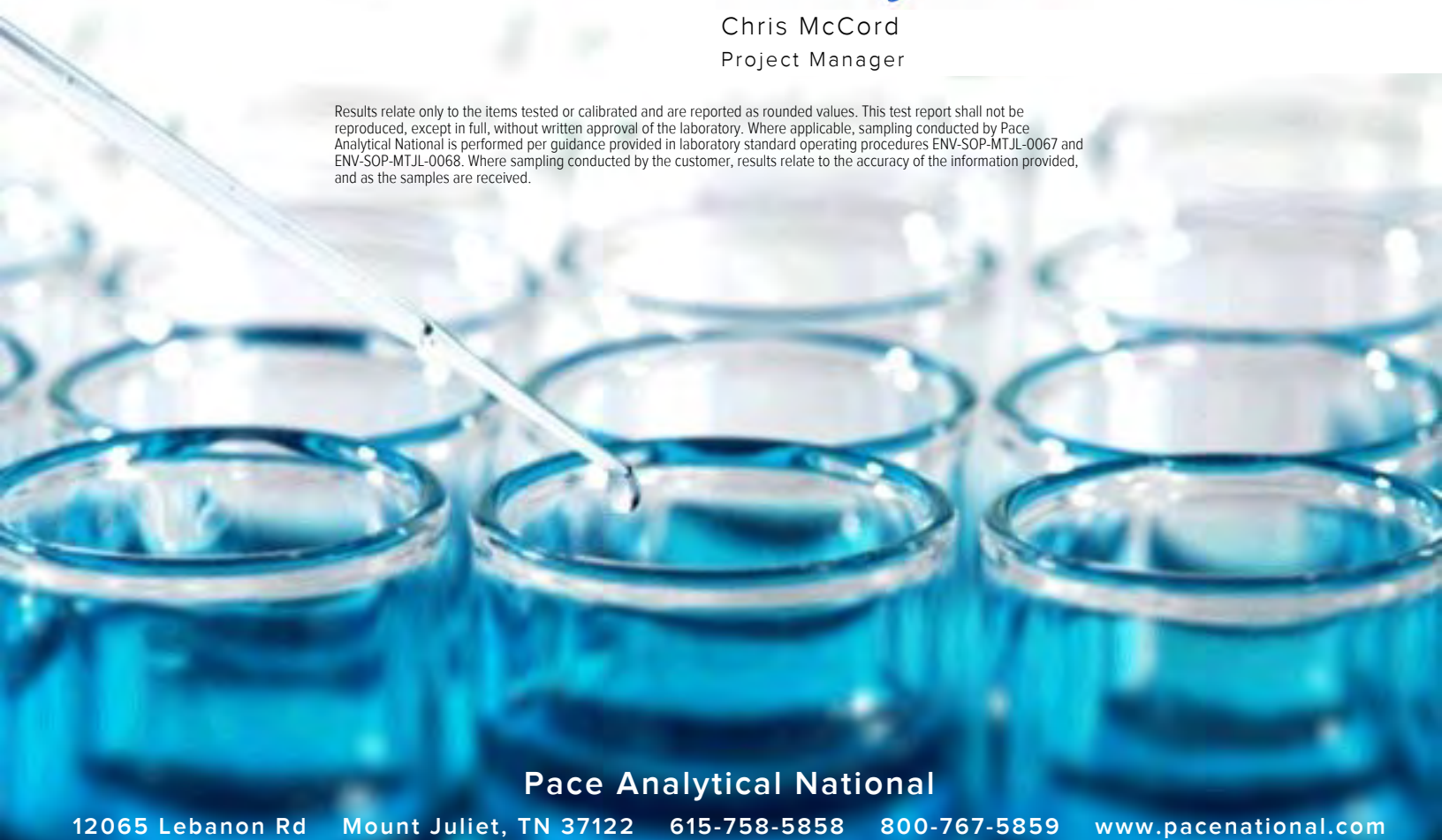
Sample Delivery Group: L1324058
 Samples Received: 03/06/2021
 Project Number: 212-MD-02413
 Description: James E. #001

Report To: Christian Lull
 901 West Wall
 Suite 100
 Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 7

Sr: Sample Results 8

 AH 1 (0'-1') L1324058-01 8

 AH 1 (2'-3') L1324058-02 9

 AH 2 (0'-1') L1324058-03 10

 AH 2 (2'-3') L1324058-04 11

 AH 2 (4'-5') L1324058-05 12

 AH 3 (0'-1') L1324058-06 13

 AH 3 (2'-3') L1324058-07 14

 AH 4 (0'-1') L1324058-08 15

 AH 4 (2'-3') L1324058-09 16

 AH 5 (0'-1') L1324058-10 17

 AH-5 (2'-3') L1324058-11 18

 AH-6 (0'-1') L1324058-12 19

 AH-6 (2'-3') L1324058-13 20

 AH-7 (0'-1') L1324058-14 21

 AH-7 (2'-3') L1324058-15 22

 AH-8 (0'-1') L1324058-16 23

 AH-8 (2'-3') L1324058-17 24

Qc: Quality Control Summary 25

 Total Solids by Method 2540 G-2011 25

 Wet Chemistry by Method 300.0 28

 Volatile Organic Compounds (GC) by Method 8015D/GRO 29

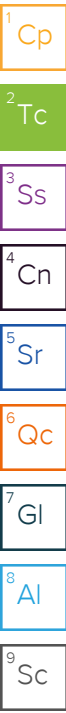
 Volatile Organic Compounds (GC/MS) by Method 8260B 32

 Semi-Volatile Organic Compounds (GC) by Method 8015 35

Gl: Glossary of Terms 37

Al: Accreditations & Locations 38

Sc: Sample Chain of Custody 39



AH 1 (0'-1') L1324058-01 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 08:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631707	1	03/09/21 17:09	03/09/21 17:17	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 21:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 05:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1631712	1	03/08/21 15:10	03/10/21 00:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 15:48	JN	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn
 5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

AH 1 (2'-3') L1324058-02 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 08:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631707	1	03/09/21 17:09	03/09/21 17:17	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 21:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 06:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1631712	1	03/08/21 15:10	03/10/21 00:36	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 16:02	JN	Mt. Juliet, TN

AH 2 (0'-1') L1324058-03 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 09:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631707	1	03/09/21 17:09	03/09/21 17:17	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	10	03/13/21 17:07	03/13/21 21:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 06:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1631712	1	03/08/21 15:10	03/10/21 00:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 19:39	JN	Mt. Juliet, TN

AH 2 (2'-3') L1324058-04 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 09:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631707	1	03/09/21 17:09	03/09/21 17:17	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	10	03/13/21 17:07	03/13/21 22:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 06:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1631712	1	03/08/21 15:10	03/10/21 01:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 16:18	JN	Mt. Juliet, TN

AH 2 (4'-5') L1324058-05 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 10:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 22:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 07:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 08:42	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 19:52	JN	Mt. Juliet, TN

AH 3 (0'-1') L1324058-06 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 10:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 22:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1633406	1	03/08/21 15:10	03/12/21 07:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 09:01	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 20:05	JN	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn
 5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

AH 3 (2'-3') L1324058-07 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 11:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 22:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632935	1	03/08/21 15:10	03/11/21 22:08	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 09:20	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 16:31	JN	Mt. Juliet, TN

AH 4 (0'-1') L1324058-08 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 11:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632935	1	03/08/21 15:10	03/11/21 22:32	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 09:39	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 16:44	JN	Mt. Juliet, TN

AH 4 (2'-3') L1324058-09 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 12:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632935	1	03/08/21 15:10	03/11/21 22:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 09:58	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 16:57	JN	Mt. Juliet, TN

AH 5 (0'-1') L1324058-10 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 12:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632935	1	03/08/21 15:10	03/11/21 23:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 10:17	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 20:18	JN	Mt. Juliet, TN

AH-5 (2'-3') L1324058-11 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 14:10
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 18:18	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 10:35	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 19:13	JN	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AH-6 (0'-1') L1324058-12 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 14:20
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 18:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 10:54	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 19:00	JN	Mt. Juliet, TN

AH-6 (2'-3') L1324058-13 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 14:30
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 19:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 11:13	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633146	1	03/12/21 22:34	03/13/21 19:26	JN	Mt. Juliet, TN

AH-7 (0'-1') L1324058-14 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 14:40
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631778	1	03/09/21 16:59	03/09/21 17:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/13/21 23:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 19:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632002	1	03/08/21 15:10	03/10/21 11:32	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633148	1	03/12/21 22:41	03/13/21 15:21	JN	Mt. Juliet, TN

AH-7 (2'-3') L1324058-15 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 14:50
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631779	1	03/11/21 12:48	03/11/21 13:05	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/14/21 00:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 19:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632669	1	03/08/21 15:10	03/11/21 02:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633148	1	03/12/21 22:41	03/13/21 15:33	JN	Mt. Juliet, TN

AH-8 (0'-1') L1324058-16 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 15:00
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631779	1	03/11/21 12:48	03/11/21 13:05	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/14/21 00:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 20:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632669	1	03/08/21 15:10	03/11/21 02:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633148	1	03/12/21 22:41	03/13/21 15:46	JN	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn

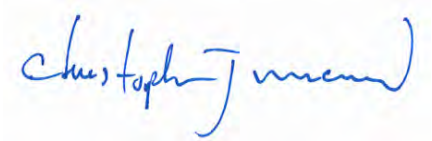
AH-8 (2'-3') L1324058-17 Solid

Collected by: Adrian Garcia
 Collected date/time: 03/03/21 15:20
 Received date/time: 03/06/21 10:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1631779	1	03/11/21 12:48	03/11/21 13:05	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1633355	1	03/13/21 17:07	03/14/21 00:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1632938	1	03/08/21 15:10	03/11/21 20:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1632669	1	03/08/21 15:10	03/11/21 03:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1633148	1	03/12/21 22:41	03/13/21 15:59	JN	Mt. Juliet, TN

5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 03/03/21 08:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.1		1	03/09/2021 17:17	WG1631707

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	24.2	J	11.6	25.3	1	03/13/2021 21:06	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0274	0.126	1	03/12/2021 05:46	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	90.4			77.0-120		03/12/2021 05:46	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000714	0.00153	1	03/10/2021 00:17	WG1631712
Toluene	U		0.00199	0.00764	1	03/10/2021 00:17	WG1631712
Ethylbenzene	U		0.00113	0.00382	1	03/10/2021 00:17	WG1631712
Total Xylenes	U		0.00135	0.00994	1	03/10/2021 00:17	WG1631712
(S) Toluene-d8	102			75.0-131		03/10/2021 00:17	WG1631712
(S) 4-Bromofluorobenzene	90.9			67.0-138		03/10/2021 00:17	WG1631712
(S) 1,2-Dichloroethane-d4	84.2			70.0-130		03/10/2021 00:17	WG1631712

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.04	5.06	1	03/13/2021 15:48	WG1633146
C28-C40 Oil Range	2.65	J	0.346	5.06	1	03/13/2021 15:48	WG1633146
(S) o-Terphenyl	61.2			18.0-148		03/13/2021 15:48	WG1633146

Collected date/time: 03/03/21 08:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.8		1	03/09/2021 17:17	WG1631707

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	35.2		9.41	20.5	1	03/13/2021 21:43	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	03/12/2021 06:08	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		03/12/2021 06:08	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000488	0.00105	1	03/10/2021 00:36	WG1631712
Toluene	U		0.00136	0.00523	1	03/10/2021 00:36	WG1631712
Ethylbenzene	U		0.000771	0.00261	1	03/10/2021 00:36	WG1631712
Total Xylenes	U		0.000920	0.00680	1	03/10/2021 00:36	WG1631712
(S) Toluene-d8	102			75.0-131		03/10/2021 00:36	WG1631712
(S) 4-Bromofluorobenzene	91.9			67.0-138		03/10/2021 00:36	WG1631712
(S) 1,2-Dichloroethane-d4	84.2			70.0-130		03/10/2021 00:36	WG1631712

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.74	J	1.65	4.09	1	03/13/2021 16:02	WG1633146
C28-C40 Oil Range	9.01		0.280	4.09	1	03/13/2021 16:02	WG1633146
(S) o-Terphenyl	69.9			18.0-148		03/13/2021 16:02	WG1633146

Collected date/time: 03/03/21 09:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	03/09/2021 17:17	WG1631707

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	971		95.7	208	10	03/13/2021 21:53	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	03/12/2021 06:30	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	90.5			77.0-120		03/12/2021 06:30	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000504	0.00108	1	03/10/2021 00:55	WG1631712
Toluene	U		0.00140	0.00540	1	03/10/2021 00:55	WG1631712
Ethylbenzene	U		0.000796	0.00270	1	03/10/2021 00:55	WG1631712
Total Xylenes	U		0.000950	0.00702	1	03/10/2021 00:55	WG1631712
(S) Toluene-d8	103			75.0-131		03/10/2021 00:55	WG1631712
(S) 4-Bromofluorobenzene	91.8			67.0-138		03/10/2021 00:55	WG1631712
(S) 1,2-Dichloroethane-d4	82.4			70.0-130		03/10/2021 00:55	WG1631712

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.9		1.67	4.16	1	03/13/2021 19:39	WG1633146
C28-C40 Oil Range	36.7		0.285	4.16	1	03/13/2021 19:39	WG1633146
(S) o-Terphenyl	54.2			18.0-148		03/13/2021 19:39	WG1633146

Collected date/time: 03/03/21 09:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.5		1	03/09/2021 17:17	WG1631707

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3020		125	272	10	03/13/2021 22:02	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.154		0.0295	0.136	1	03/12/2021 06:52	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	88.8			77.0-120		03/12/2021 06:52	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000803	0.00172	1	03/10/2021 01:14	WG1631712
Toluene	U		0.00224	0.00860	1	03/10/2021 01:14	WG1631712
Ethylbenzene	U		0.00127	0.00430	1	03/10/2021 01:14	WG1631712
Total Xylenes	U		0.00151	0.0112	1	03/10/2021 01:14	WG1631712
(S) Toluene-d8	102			75.0-131		03/10/2021 01:14	WG1631712
(S) 4-Bromofluorobenzene	91.8			67.0-138		03/10/2021 01:14	WG1631712
(S) 1,2-Dichloroethane-d4	83.7			70.0-130		03/10/2021 01:14	WG1631712

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.19	5.44	1	03/13/2021 16:18	WG1633146
C28-C40 Oil Range	1.20	J	0.373	5.44	1	03/13/2021 16:18	WG1633146
(S) o-Terphenyl	58.9			18.0-148		03/13/2021 16:18	WG1633146

Collected date/time: 03/03/21 10:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	206		9.70	21.1	1	03/13/2021 22:12	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	03/12/2021 07:14	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	89.4			77.0-120		03/12/2021 07:14	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000517	0.00111	1	03/10/2021 08:42	WG1632002
Toluene	U		0.00144	0.00554	1	03/10/2021 08:42	WG1632002
Ethylbenzene	U		0.000816	0.00277	1	03/10/2021 08:42	WG1632002
Total Xylenes	U		0.000975	0.00720	1	03/10/2021 08:42	WG1632002
(S) Toluene-d8	109			75.0-131		03/10/2021 08:42	WG1632002
(S) 4-Bromofluorobenzene	98.3			67.0-138		03/10/2021 08:42	WG1632002
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		03/10/2021 08:42	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.94		1.70	4.22	1	03/13/2021 19:52	WG1633146
C28-C40 Oil Range	12.8		0.289	4.22	1	03/13/2021 19:52	WG1633146
(S) o-Terphenyl	62.2			18.0-148		03/13/2021 19:52	WG1633146

Collected date/time: 03/03/21 10:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.5		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	400		9.44	20.5	1	03/13/2021 22:40	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	03/12/2021 07:36	WG1633406
(S) a,a,a-Trifluorotoluene(FID)	90.3			77.0-120		03/12/2021 07:36	WG1633406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000491	0.00105	1	03/10/2021 09:01	WG1632002
Toluene	U		0.00137	0.00526	1	03/10/2021 09:01	WG1632002
Ethylbenzene	U		0.000775	0.00263	1	03/10/2021 09:01	WG1632002
Total Xylenes	U		0.000926	0.00684	1	03/10/2021 09:01	WG1632002
(S) Toluene-d8	107			75.0-131		03/10/2021 09:01	WG1632002
(S) 4-Bromofluorobenzene	103			67.0-138		03/10/2021 09:01	WG1632002
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		03/10/2021 09:01	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	41.3		1.65	4.10	1	03/13/2021 20:05	WG1633146
C28-C40 Oil Range	58.2		0.281	4.10	1	03/13/2021 20:05	WG1633146
(S) o-Terphenyl	47.1			18.0-148		03/13/2021 20:05	WG1633146

Collected date/time: 03/03/21 11:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	98.2		1	03/09/2021 17:07	WG1631778

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	215		9.37	20.4	1	03/13/2021 22:50	WG1633355

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0457	B J	0.0221	0.102	1	03/11/2021 22:08	WG1632935
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		03/11/2021 22:08	WG1632935

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000484	0.00104	1	03/10/2021 09:20	WG1632002
Toluene	U		0.00135	0.00519	1	03/10/2021 09:20	WG1632002
Ethylbenzene	U		0.000765	0.00259	1	03/10/2021 09:20	WG1632002
Total Xylenes	U		0.000913	0.00674	1	03/10/2021 09:20	WG1632002
(S) Toluene-d8	107			75.0-131		03/10/2021 09:20	WG1632002
(S) 4-Bromofluorobenzene	99.3			67.0-138		03/10/2021 09:20	WG1632002
(S) 1,2-Dichloroethane-d4	93.5			70.0-130		03/10/2021 09:20	WG1632002

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	3.30	J	1.64	4.07	1	03/13/2021 16:31	WG1633146
C28-C40 Oil Range	5.20		0.279	4.07	1	03/13/2021 16:31	WG1633146
(S) o-Terphenyl	70.6			18.0-148		03/13/2021 16:31	WG1633146

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 03/03/21 11:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.2		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.2	24.3	1	03/13/2021 23:00	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0913	<u>B J</u>	0.0264	0.122	1	03/11/2021 22:32	WG1632935
(S) a,a,a-Trifluorotoluene(FID)	98.1			77.0-120		03/11/2021 22:32	WG1632935

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000669	0.00143	1	03/10/2021 09:39	WG1632002
Toluene	U		0.00186	0.00716	1	03/10/2021 09:39	WG1632002
Ethylbenzene	U		0.00106	0.00358	1	03/10/2021 09:39	WG1632002
Total Xylenes	U		0.00126	0.00931	1	03/10/2021 09:39	WG1632002
(S) Toluene-d8	108			75.0-131		03/10/2021 09:39	WG1632002
(S) 4-Bromofluorobenzene	96.5			67.0-138		03/10/2021 09:39	WG1632002
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		03/10/2021 09:39	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.96	4.87	1	03/13/2021 16:44	WG1633146
C28-C40 Oil Range	1.41	<u>J</u>	0.333	4.87	1	03/13/2021 16:44	WG1633146
(S) o-Terphenyl	62.4			18.0-148		03/13/2021 16:44	WG1633146

Collected date/time: 03/03/21 12:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	518		9.51	20.7	1	03/13/2021 23:09	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	03/11/2021 22:55	WG1632935
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		03/11/2021 22:55	WG1632935

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000499	0.00107	1	03/10/2021 09:58	WG1632002
Toluene	U		0.00139	0.00534	1	03/10/2021 09:58	WG1632002
Ethylbenzene	U		0.000787	0.00267	1	03/10/2021 09:58	WG1632002
Total Xylenes	U		0.000940	0.00694	1	03/10/2021 09:58	WG1632002
(S) Toluene-d8	107			75.0-131		03/10/2021 09:58	WG1632002
(S) 4-Bromofluorobenzene	102			67.0-138		03/10/2021 09:58	WG1632002
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		03/10/2021 09:58	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.92	J	1.66	4.14	1	03/13/2021 16:57	WG1633146
C28-C40 Oil Range	6.69		0.283	4.14	1	03/13/2021 16:57	WG1633146
(S) o-Terphenyl	72.6			18.0-148		03/13/2021 16:57	WG1633146

Collected date/time: 03/03/21 12:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.50	20.7	1	03/13/2021 23:19	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0550	B J	0.0224	0.103	1	03/11/2021 23:18	WG1632935
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		03/11/2021 23:18	WG1632935

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000497	0.00107	1	03/10/2021 10:17	WG1632002
Toluene	U		0.00138	0.00533	1	03/10/2021 10:17	WG1632002
Ethylbenzene	U		0.000785	0.00266	1	03/10/2021 10:17	WG1632002
Total Xylenes	U		0.000937	0.00692	1	03/10/2021 10:17	WG1632002
(S) Toluene-d8	106			75.0-131		03/10/2021 10:17	WG1632002
(S) 4-Bromofluorobenzene	101			67.0-138		03/10/2021 10:17	WG1632002
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		03/10/2021 10:17	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.58		1.66	4.13	1	03/13/2021 20:18	WG1633146
C28-C40 Oil Range	15.1		0.283	4.13	1	03/13/2021 20:18	WG1633146
(S) o-Terphenyl	74.2			18.0-148		03/13/2021 20:18	WG1633146

Collected date/time: 03/03/21 14:10

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.3		1	03/09/2021 17:07	WG1631778

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	812		12.2	26.6	1	03/13/2021 23:28	WG1633355

5 Sr

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0288	0.133	1	03/11/2021 18:18	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120		03/11/2021 18:18	WG1632938

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000774	0.00166	1	03/10/2021 10:35	WG1632002
Toluene	U		0.00216	0.00829	1	03/10/2021 10:35	WG1632002
Ethylbenzene	U		0.00122	0.00415	1	03/10/2021 10:35	WG1632002
Total Xylenes	U		0.00146	0.0108	1	03/10/2021 10:35	WG1632002
(S) Toluene-d8	105			75.0-131		03/10/2021 10:35	WG1632002
(S) 4-Bromofluorobenzene	101			67.0-138		03/10/2021 10:35	WG1632002
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		03/10/2021 10:35	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.14	5.31	1	03/13/2021 19:13	WG1633146
C28-C40 Oil Range	1.46	J	0.364	5.31	1	03/13/2021 19:13	WG1633146
(S) o-Terphenyl	54.2			18.0-148		03/13/2021 19:13	WG1633146

Collected date/time: 03/03/21 14:20

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.0		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.30	20.2	1	03/13/2021 23:38	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	03/11/2021 18:40	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	93.2			77.0-120		03/11/2021 18:40	WG1632938

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000477	0.00102	1	03/10/2021 10:54	WG1632002
Toluene	U		0.00133	0.00510	1	03/10/2021 10:54	WG1632002
Ethylbenzene	U		0.000752	0.00255	1	03/10/2021 10:54	WG1632002
Total Xylenes	U		0.000898	0.00663	1	03/10/2021 10:54	WG1632002
(S) Toluene-d8	108			75.0-131		03/10/2021 10:54	WG1632002
(S) 4-Bromofluorobenzene	99.5			67.0-138		03/10/2021 10:54	WG1632002
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		03/10/2021 10:54	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.81	J	1.63	4.04	1	03/13/2021 19:00	WG1633146
C28-C40 Oil Range	1.75	J	0.277	4.04	1	03/13/2021 19:00	WG1633146
(S) o-Terphenyl	69.5			18.0-148		03/13/2021 19:00	WG1633146

Collected date/time: 03/03/21 14:30

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.1		1	03/09/2021 17:07	WG1631778

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.29	20.2	1	03/13/2021 23:47	WG1633355

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	03/11/2021 19:02	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/11/2021 19:02	WG1632938

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000476	0.00102	1	03/10/2021 11:13	WG1632002
Toluene	U		0.00132	0.00510	1	03/10/2021 11:13	WG1632002
Ethylbenzene	U		0.000751	0.00255	1	03/10/2021 11:13	WG1632002
Total Xylenes	U		0.000897	0.00662	1	03/10/2021 11:13	WG1632002
(S) Toluene-d8	107			75.0-131		03/10/2021 11:13	WG1632002
(S) 4-Bromofluorobenzene	103			67.0-138		03/10/2021 11:13	WG1632002
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		03/10/2021 11:13	WG1632002

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.76	J	1.63	4.04	1	03/13/2021 19:26	WG1633146
C28-C40 Oil Range	2.28	J	0.277	4.04	1	03/13/2021 19:26	WG1633146
(S) o-Terphenyl	73.0			18.0-148		03/13/2021 19:26	WG1633146

Collected date/time: 03/03/21 14:40

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.9		1	03/09/2021 17:07	WG1631778

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.40	20.4	1	03/13/2021 23:57	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	03/11/2021 19:24	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	92.3			77.0-120		03/11/2021 19:24	WG1632938

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000487	0.00104	1	03/10/2021 11:32	WG1632002
Toluene	U		0.00136	0.00521	1	03/10/2021 11:32	WG1632002
Ethylbenzene	U		0.000769	0.00261	1	03/10/2021 11:32	WG1632002
Total Xylenes	U		0.000918	0.00678	1	03/10/2021 11:32	WG1632002
(S) Toluene-d8	107			75.0-131		03/10/2021 11:32	WG1632002
(S) 4-Bromofluorobenzene	98.9			67.0-138		03/10/2021 11:32	WG1632002
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		03/10/2021 11:32	WG1632002

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	6.92		1.64	4.09	1	03/13/2021 15:21	WG1633148
C28-C40 Oil Range	13.6		0.280	4.09	1	03/13/2021 15:21	WG1633148
(S) o-Terphenyl	72.1			18.0-148		03/13/2021 15:21	WG1633148

Collected date/time: 03/03/21 14:50

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.4		1	03/11/2021 13:05	WG1631779

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.44	20.5	1	03/14/2021 00:06	WG1633355

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	03/11/2021 19:46	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120		03/11/2021 19:46	WG1632938

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000492	0.00105	1	03/11/2021 02:32	WG1632669
Toluene	U		0.00137	0.00526	1	03/11/2021 02:32	WG1632669
Ethylbenzene	U		0.000776	0.00263	1	03/11/2021 02:32	WG1632669
Total Xylenes	U		0.000926	0.00684	1	03/11/2021 02:32	WG1632669
(S) Toluene-d8	108			75.0-131		03/11/2021 02:32	WG1632669
(S) 4-Bromofluorobenzene	102			67.0-138		03/11/2021 02:32	WG1632669
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		03/11/2021 02:32	WG1632669

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.12	J	1.65	4.10	1	03/13/2021 15:33	WG1633148
C28-C40 Oil Range	4.96		0.281	4.10	1	03/13/2021 15:33	WG1633148
(S) o-Terphenyl	66.6			18.0-148		03/13/2021 15:33	WG1633148

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 03/03/21 15:00

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	03/11/2021 13:05	WG1631779

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	62.0		11.1	24.0	1	03/14/2021 00:35	WG1633355

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0458	J	0.0261	0.120	1	03/11/2021 20:08	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120		03/11/2021 20:08	WG1632938

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000655	0.00140	1	03/11/2021 02:50	WG1632669
Toluene	U		0.00182	0.00701	1	03/11/2021 02:50	WG1632669
Ethylbenzene	U		0.00103	0.00351	1	03/11/2021 02:50	WG1632669
Total Xylenes	U		0.00123	0.00912	1	03/11/2021 02:50	WG1632669
(S) Toluene-d8	107			75.0-131		03/11/2021 02:50	WG1632669
(S) 4-Bromofluorobenzene	103			67.0-138		03/11/2021 02:50	WG1632669
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		03/11/2021 02:50	WG1632669

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.81	J	1.93	4.80	1	03/13/2021 15:46	WG1633148
C28-C40 Oil Range	4.48	J	0.329	4.80	1	03/13/2021 15:46	WG1633148
(S) o-Terphenyl	56.9			18.0-148		03/13/2021 15:46	WG1633148

Collected date/time: 03/03/21 15:20

L1324058

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.8		1	03/11/2021 13:05	WG1631779

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	17.3	J	9.91	21.5	1	03/14/2021 00:44	WG1633355

- 5 Sr
- 6 Qc
- 7 Gl

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	03/11/2021 20:30	WG1632938
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/11/2021 20:30	WG1632938

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000539	0.00115	1	03/11/2021 03:09	WG1632669
Toluene	U		0.00150	0.00577	1	03/11/2021 03:09	WG1632669
Ethylbenzene	U		0.000851	0.00289	1	03/11/2021 03:09	WG1632669
Total Xylenes	U		0.00102	0.00751	1	03/11/2021 03:09	WG1632669
(S) Toluene-d8	108			75.0-131		03/11/2021 03:09	WG1632669
(S) 4-Bromofluorobenzene	98.4			67.0-138		03/11/2021 03:09	WG1632669
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		03/11/2021 03:09	WG1632669

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.62	J	1.73	4.31	1	03/13/2021 15:59	WG1633148
C28-C40 Oil Range	4.07	J	0.295	4.31	1	03/13/2021 15:59	WG1633148
(S) o-Terphenyl	64.9			18.0-148		03/13/2021 15:59	WG1633148

Total Solids by Method 2540 G-2011

[L1324058-01,02,03,04](#)

Method Blank (MB)

(MB) R3629383-1 03/09/21 17:17

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1324050-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1324050-15 03/09/21 17:17 • (DUP) R3629383-3 03/09/21 17:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	97.4	97.2	1	0.221		10

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3629383-2 03/09/21 17:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011

[L1324058-05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3629381-1 03/09/21 17:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1324058-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1324058-08 03/09/21 17:07 • (DUP) R3629381-3 03/09/21 17:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.2	82.4	1	0.247		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3629381-2 03/09/21 17:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L1324058-15,16,17](#)

Method Blank (MB)

(MB) R3630147-1 03/11/21 13:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1324065-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1324065-03 03/11/21 13:05 • (DUP) R3630147-3 03/11/21 13:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	80.7	78.5	1	2.86		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3630147-2 03/11/21 13:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

[L1324058-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3630539-1 03/13/21 20:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1324058-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1324058-01 03/13/21 21:06 • (DUP) R3630539-3 03/13/21 21:15

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	24.2	24.6	1	1.95	↓	20

L1326630-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1326630-01 03/14/21 00:54 • (DUP) R3630539-6 03/14/21 01:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	115	114	1	0.930		20

Laboratory Control Sample (LCS)

(LCS) R3630539-2 03/13/21 20:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	194	96.9	90.0-110	

L1324058-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1324058-01 03/13/21 21:06 • (MS) R3630539-4 03/13/21 21:24 • (MSD) R3630539-5 03/13/21 21:34

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	632	24.2	602	603	91.4	91.6	1	80.0-120			0.226	20

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1324058-07.08.09.10](#)

Method Blank (MB)

(MB) R3629979-3 03/11/21 16:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	0.0715	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3629979-1 03/11/21 15:35 • (LCSD) R3629979-2 03/11/21 15:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	5.50	5.83	5.44	106	98.9	72.0-127			6.92	20
(S) a,a,a-Trifluorotoluene(FID)				108	108	77.0-120				

L1323889-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1323889-02 03/11/21 20:59 • (MS) R3629979-4 03/12/21 02:06 • (MSD) R3629979-5 03/12/21 02:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	121	U	77.5	81.0	64.0	66.9	25	10.0-151			4.42	28
(S) a,a,a-Trifluorotoluene(FID)					104	106		77.0-120				

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1324058-11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3631003-2 03/11/21 17:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3631003-1 03/11/21 16:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.65	84.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1324058-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3631004-2 03/12/21 04:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3631004-1 03/12/21 03:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.01	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

5 Sr

6 Qc

7 Gl

L1324117-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1324117-01 03/12/21 11:38 • (MS) R3631004-3 03/12/21 13:06 • (MSD) R3631004-4 03/12/21 13:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	255	U	184	193	72.2	75.7	46.3	10.0-151			4.77	28
(S) a,a,a-Trifluorotoluene(FID)					99.1	98.8		77.0-120				

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1324058-01,02,03,04](#)

Method Blank (MB)

(MB) R3630193-2 03/09/21 22:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	93.4			67.0-138
(S) 1,2-Dichloroethane-d4	85.5			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3630193-1 03/09/21 21:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.125	100	70.0-123	
Ethylbenzene	0.125	0.122	97.6	74.0-126	
Toluene	0.125	0.125	100	75.0-121	
Xylenes, Total	0.375	0.348	92.8	72.0-127	
(S) Toluene-d8			99.8	75.0-131	
(S) 4-Bromofluorobenzene			91.9	67.0-138	
(S) 1,2-Dichloroethane-d4			89.5	70.0-130	

L1323804-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1323804-09 03/10/21 02:30 • (MS) R3630193-3 03/10/21 05:22 • (MSD) R3630193-4 03/10/21 05:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	1.00	0.151	1.02	1.17	86.9	102	8	10.0-149			13.7	37
Ethylbenzene	1.00	0.400	1.30	1.42	90.0	102	8	10.0-160			8.82	38
Toluene	1.00	0.800	1.70	1.78	90.0	98.0	8	10.0-156			4.60	38
Xylenes, Total	3.00	3.28	6.01	5.78	91.0	83.3	8	10.0-160			3.90	38
(S) Toluene-d8					98.9	102		75.0-131				
(S) 4-Bromofluorobenzene					95.3	94.2		67.0-138				
(S) 1,2-Dichloroethane-d4					85.2	85.9		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1324058-05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3629321-3 03/10/21 05:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	95.3			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3629321-1 03/10/21 04:36 • (LCSD) R3629321-2 03/10/21 04:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.110	0.115	88.0	92.0	70.0-123			4.44	20
Ethylbenzene	0.125	0.116	0.120	92.8	96.0	74.0-126			3.39	20
Toluene	0.125	0.115	0.119	92.0	95.2	75.0-121			3.42	20
Xylenes, Total	0.375	0.336	0.355	89.6	94.7	72.0-127			5.50	20
(S) Toluene-d8				107	107	75.0-131				
(S) 4-Bromofluorobenzene				101	103	67.0-138				
(S) 1,2-Dichloroethane-d4				96.3	97.3	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc

L1324058-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1324058-05 03/10/21 08:42 • (MS) R3629321-4 03/10/21 12:28 • (MSD) R3629321-5 03/10/21 12:47

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.138	U	0.115	0.117	83.2	84.8	1	10.0-149			1.90	37
Ethylbenzene	0.138	U	0.124	0.129	89.6	92.8	1	10.0-160			3.51	38
Toluene	0.138	U	0.122	0.127	88.0	92.0	1	10.0-156			4.44	38
Xylenes, Total	0.415	U	0.364	0.368	87.7	88.5	1	10.0-160			0.908	38
(S) Toluene-d8					105	108		75.0-131				
(S) 4-Bromofluorobenzene					102	98.5		67.0-138				
(S) 1,2-Dichloroethane-d4					95.4	90.9		70.0-130				

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1324058-15,16,17](#)

Method Blank (MB)

(MB) R3631008-2 03/11/21 02:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	107			75.0-131
(S) 4-Bromofluorobenzene	99.9			67.0-138
(S) 1,2-Dichloroethane-d4	95.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3631008-1 03/11/21 01:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.106	84.8	70.0-123	
Ethylbenzene	0.125	0.112	89.6	74.0-126	
Toluene	0.125	0.116	92.8	75.0-121	
Xylenes, Total	0.375	0.321	85.6	72.0-127	
(S) Toluene-d8			110	75.0-131	
(S) 4-Bromofluorobenzene			97.4	67.0-138	
(S) 1,2-Dichloroethane-d4			94.4	70.0-130	

L1324058-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1324058-15 03/11/21 02:32 • (MS) R3631008-3 03/11/21 08:49 • (MSD) R3631008-4 03/11/21 09:07

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.132	U	0.118	0.113	89.6	85.6	1	10.0-149			4.57	37
Ethylbenzene	0.132	U	0.123	0.118	93.6	89.6	1	10.0-160			4.37	38
Toluene	0.132	U	0.121	0.121	92.0	92.0	1	10.0-156			0.000	38
Xylenes, Total	0.395	U	0.354	0.347	89.6	88.0	1	10.0-160			1.80	38
(S) Toluene-d8					106	108		75.0-131				
(S) 4-Bromofluorobenzene					99.4	99.5		67.0-138				
(S) 1,2-Dichloroethane-d4					97.0	93.1		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1324058-01,02,03,04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3630440-1 03/13/21 11:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	67.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3630440-2 03/13/21 11:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.0	80.0	50.0-150	
(S) o-Terphenyl			81.4	18.0-148	

L1324058-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1324058-09 03/13/21 16:57 • (MS) R3630440-3 03/13/21 17:10 • (MSD) R3630440-4 03/13/21 17:23

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	51.7	3.92	44.9	44.3	79.2	78.3	1	50.0-150			1.39	20
(S) o-Terphenyl					62.8	64.5		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1324058-14,15,16,17](#)

Method Blank (MB)

(MB) R3630521-1 03/13/21 14:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	64.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3630521-2 03/13/21 15:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	36.6	73.2	50.0-150	
(S) o-Terphenyl			75.5	18.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

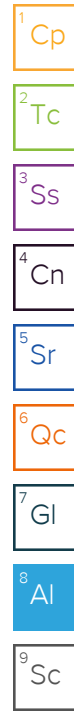
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable


* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Analysis Request of Chain of Custody Record

1324058

 <h1 style="margin: 0;">Tetra Tech, Inc.</h1>	901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
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H239

Client Name: Conoco Phillips	Site Manager: Christian Llull
Project Name: James E. #001	Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: Lea County, New Mexico	Project #: 212C-MD-02413
Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701	
Receiving Laboratory: Pace Analytical	Sampler Signature: Adrian Garcia
Comments: COPTETRA Acctnum	

ANALYSIS REQUEST (Circle or Specify Method No.)																																				
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD					
		YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃																								ICE	NONE			
-01	AH 1 (0'-1')	03/03/21	800	X			X		1	N	X	X																								
02	AH 1 (2'-3')	03/03/21	830	X			X		1	N	X	X																								
03	AH 2 (0'-1')	03/03/21	900	X			X		1	N	X	X																								
04	AH 2 (2'-3')	03/03/21	930	X			X		1	N	X	X																								
05	AH 2 (4'-5')	03/03/21	1000	X			X		1	N	X	X																								
06	AH 3 (0'-1')	03/03/21	1030	X			X		1	N	X	X																								
07	AH 3 (2'-3')	03/03/21	1100	X			X		1	N	X	X																								
08	AH 4 (0'-1')	03/03/21	1130	X			X		1	N	X	X																								
09	AH 4 (2'-3')	03/03/21	1200	X			X		1	N	X	X																								
10	AH 5 (0'-1')	03/03/21	1230	X			X		1	N	X	X																								

Relinquished by: <i>Adrian Garcia</i>	Date: 3/5/21	Time: 13:30	Received by: <i>SWA</i>	Date: 3-5-21	Time: 13:30
Relinquished by: <i>[Signature]</i>	Date: 3-5-21	Time: 14:30	Received by: <i>SWA</i>	Date: 3-5-21	Time: 14:30
Relinquished by: <i>[Signature]</i>	Date: 3-6-21	Time: 1005	Received by: <i>Mapper</i>	Date: 3-6-21	Time: 1005

<p>LAB USE ONLY</p> <p>Sample Temperature: 0.2M2 30.4</p>	<p>REMARKS:</p> <p><input checked="" type="checkbox"/> Standard</p> <p><input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.</p> <p><input type="checkbox"/> Rush Charges Authorized</p> <p><input type="checkbox"/> Special Report Limits or TRRP Report</p>
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ORIGINAL COPY

17 total

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

**Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form**

Client:	COPJETRA	1324058
Cooler Received/Opened On:	3 / 6 / 21	Temperature: .4
Received By:	Michael Pappas	
Signature:	M Pappas	

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	/		
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

May 19, 2021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

ConocoPhillips - Tetra Tech

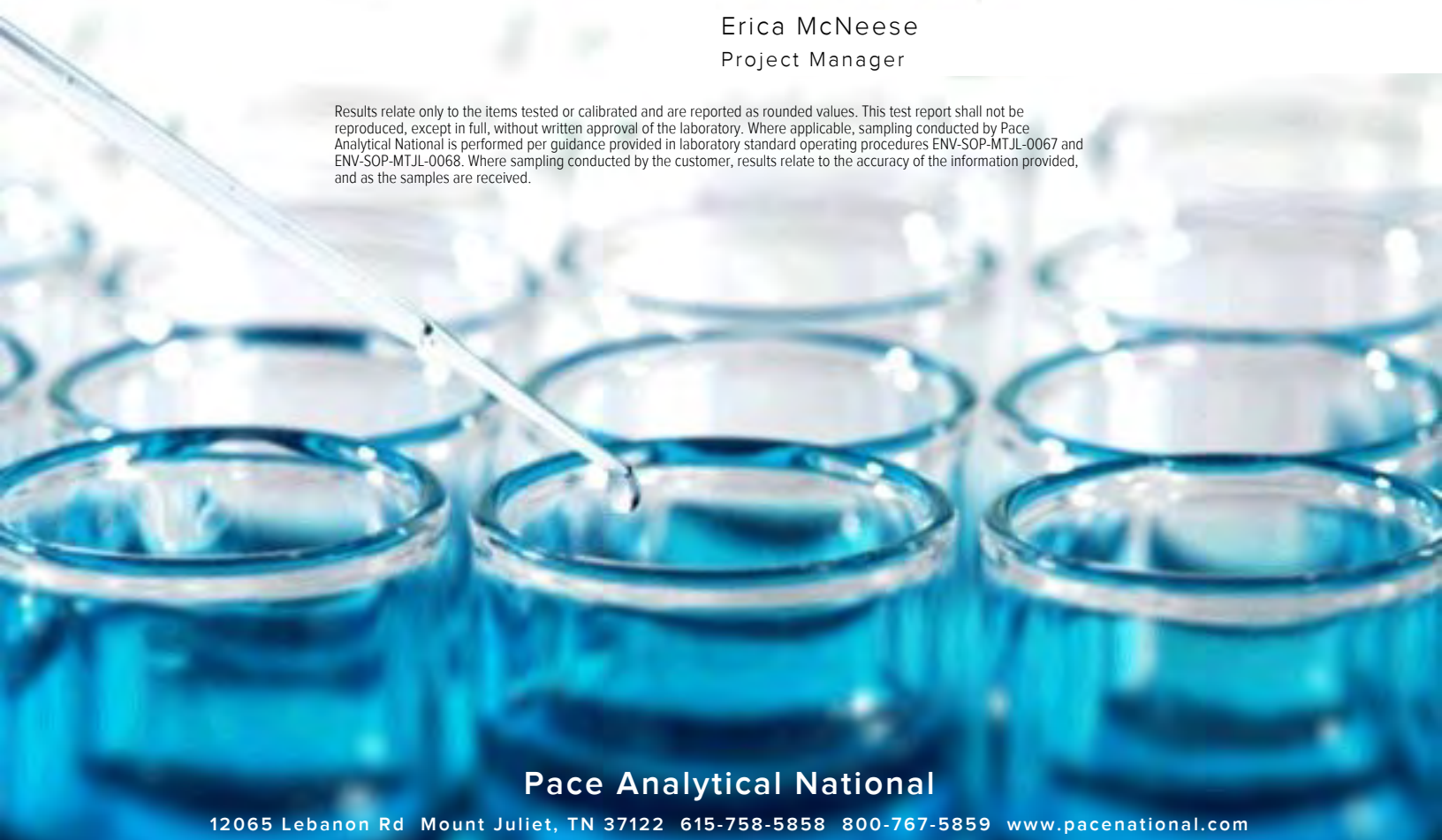
Sample Delivery Group: L1350285
 Samples Received: 05/08/2021
 Project Number: 212-MD-02413
 Description: James E #001 Tubing Line Release

Report To: Christian Lull
 901 West Wall
 Suite 100
 Midland, TX 79701

Entire Report Reviewed By:

Erica McNeese
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
AH-9 (0-1) L1350285-01	5	
AH-9 (2-3) L1350285-02	6	
Qc: Quality Control Summary	7	
Total Solids by Method 2540 G-2011	7	
Wet Chemistry by Method 300.0	8	
Volatile Organic Compounds (GC) by Method 8015D/GRO	9	
Volatile Organic Compounds (GC/MS) by Method 8260B	10	
Semi-Volatile Organic Compounds (GC) by Method 8015	11	
Gl: Glossary of Terms	12	
Al: Accreditations & Locations	13	
Sc: Sample Chain of Custody	14	

AH-9 (0-1) L1350285-01 Solid

Collected by Andrew Garcia
 Collected date/time 05/05/21 11:00
 Received date/time 05/08/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1670301	1	05/13/21 20:36	05/13/21 21:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1672343	1	05/18/21 00:10	05/18/21 05:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669406	1	05/12/21 13:55	05/13/21 10:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1669720	1	05/12/21 13:55	05/13/21 12:53	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1670825	1	05/14/21 18:12	05/17/21 02:59	CAG	Mt. Juliet, TN

1 Cp
 2 Tc
 3 Ss
 4 Cn

AH-9 (2-3) L1350285-02 Solid

Collected by Andrew Garcia
 Collected date/time 05/05/21 11:30
 Received date/time 05/08/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1670301	1	05/13/21 20:36	05/13/21 21:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1672343	1	05/18/21 00:10	05/18/21 05:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669406	1	05/12/21 13:55	05/13/21 10:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1669720	1	05/12/21 13:55	05/13/21 13:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1670825	1	05/14/21 18:12	05/17/21 02:46	CAG	Mt. Juliet, TN

5 Sr
 6 Qc
 7 Gl
 8 Al
 9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Erica McNeese
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 05/05/21 11:00

L1350285

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	91.4		1	05/13/2021 21:11	WG1670301

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		10.1	21.9	1	05/18/2021 05:29	WG1672343

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	05/13/2021 10:22	WG1669406
(S) a,a,a-Trifluorotoluene(FID)	91.7			77.0-120		05/13/2021 10:22	WG1669406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U	J3	0.000555	0.00119	1	05/13/2021 12:53	WG1669720
Toluene	U	J3	0.00155	0.00594	1	05/13/2021 12:53	WG1669720
Ethylbenzene	U	J3	0.000876	0.00297	1	05/13/2021 12:53	WG1669720
Total Xylenes	U		0.00105	0.00773	1	05/13/2021 12:53	WG1669720
(S) Toluene-d8	121			75.0-131		05/13/2021 12:53	WG1669720
(S) 4-Bromofluorobenzene	94.0			67.0-138		05/13/2021 12:53	WG1669720
(S) 1,2-Dichloroethane-d4	105			70.0-130		05/13/2021 12:53	WG1669720

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.76	4.38	1	05/17/2021 02:59	WG1670825
C28-C40 Oil Range	6.90		0.300	4.38	1	05/17/2021 02:59	WG1670825
(S) o-Terphenyl	47.6			18.0-148		05/17/2021 02:59	WG1670825

Collected date/time: 05/05/21 11:30

L1350285

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.4		1	05/13/2021 21:11	WG1670301

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	15.0	J	9.54	20.7	1	05/18/2021 05:38	WG1672343

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	05/13/2021 10:44	WG1669406
(S) a,a,a-Trifluorotoluene(FID)	91.7			77.0-120		05/13/2021 10:44	WG1669406

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000502	0.00107	1	05/13/2021 13:12	WG1669720
Toluene	U		0.00140	0.00537	1	05/13/2021 13:12	WG1669720
Ethylbenzene	U		0.000792	0.00269	1	05/13/2021 13:12	WG1669720
Total Xylenes	U		0.000946	0.00699	1	05/13/2021 13:12	WG1669720
(S) Toluene-d8	128			75.0-131		05/13/2021 13:12	WG1669720
(S) 4-Bromofluorobenzene	124			67.0-138		05/13/2021 13:12	WG1669720
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/13/2021 13:12	WG1669720

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.67	4.15	1	05/17/2021 02:46	WG1670825
C28-C40 Oil Range	3.28	J	0.284	4.15	1	05/17/2021 02:46	WG1670825
(S) o-Terphenyl	51.1			18.0-148		05/17/2021 02:46	WG1670825

Total Solids by Method 2540 G-2011

[L1350285-01,02](#)

Method Blank (MB)

(MB) R3654578-1 05/13/21 21:11

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1350269-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1350269-01 05/13/21 21:11 • (DUP) R3654578-3 05/13/21 21:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	83.7	84.3	1	0.762		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3654578-2 05/13/21 21:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 300.0

[L1350285-01,02](#)

Method Blank (MB)

(MB) R3655619-1 05/18/21 03:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1348718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348718-01 05/18/21 03:35 • (DUP) R3655619-3 05/18/21 03:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	99.8	100	1	0.674		20

L1351233-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1351233-06 05/18/21 06:54 • (DUP) R3655619-6 05/18/21 07:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3655619-2 05/18/21 03:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	204	102	90.0-110	

L1348718-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348718-01 05/18/21 03:35 • (MS) R3655619-4 05/18/21 03:54 • (MSD) R3655619-5 05/18/21 04:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	500	99.8	639	638	108	108	1	80.0-120			0.257	20

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1350285-01,02](#)

Method Blank (MB)

(MB) R3654968-2 05/13/21 04:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3654968-1 05/13/21 03:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.09	92.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

L1350296-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350296-19 05/13/21 11:06 • (MS) R3654968-3 05/13/21 14:45 • (MSD) R3654968-4 05/13/21 15:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	101	U	97.5	104	96.5	103	25	10.0-151			6.45	28
(S) a,a,a-Trifluorotoluene(FID)					110	112		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1350285-01,02](#)

Method Blank (MB)

(MB) R3654371-2 05/13/21 03:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	94.3			75.0-131
(S) 4-Bromofluorobenzene	97.5			67.0-138
(S) 1,2-Dichloroethane-d4	117			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3654371-1 05/13/21 02:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.106	84.8	70.0-123	
Ethylbenzene	0.125	0.132	106	74.0-126	
Toluene	0.125	0.133	106	75.0-121	
Xylenes, Total	0.375	0.374	99.7	72.0-127	
(S) Toluene-d8			126	75.0-131	
(S) 4-Bromofluorobenzene			95.0	67.0-138	
(S) 1,2-Dichloroethane-d4			121	70.0-130	

7 Gl

8 Al

9 Sc

L1350285-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350285-01 05/13/21 12:53 • (MS) R3654371-3 05/13/21 13:51 • (MSD) R3654371-4 05/13/21 14:10

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.149	U	0.0895	0.136	60.2	91.2	1	10.0-149		J3	40.9	37
Ethylbenzene	0.149	U	0.111	0.169	74.5	114	1	10.0-160		J3	41.6	38
Toluene	0.149	U	0.112	0.176	75.2	118	1	10.0-156		J3	44.6	38
Xylenes, Total	0.446	U	0.323	0.445	72.5	99.7	1	10.0-160			31.6	38
(S) Toluene-d8					125	120		75.0-131				
(S) 4-Bromofluorobenzene					101	82.6		67.0-138				
(S) 1,2-Dichloroethane-d4					112	105		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1350285-01,02](#)

Method Blank (MB)

(MB) R3655265-1 05/17/21 01:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	52.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3655265-2 05/17/21 01:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	32.2	64.4	50.0-150	
(S) o-Terphenyl			52.4	18.0-148	

L1350296-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350296-14 05/17/21 04:43 • (MS) R3655265-3 05/17/21 04:56 • (MSD) R3655265-4 05/17/21 05:09

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	51.0	2.37	32.3	28.8	58.6	51.7	1	50.0-150			11.2	20
(S) o-Terphenyl					30.7	27.0		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

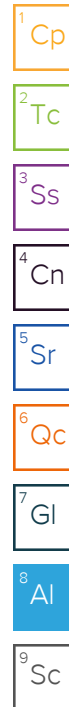
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





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

December 15, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E #1

Enclosed are the results of analyses for samples received by the laboratory on 12/12/22 15:19.

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:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/15/2022	Sampling Type:	Soil
Project Name:	JAMES E #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: AH - 10 (0-1') (H225847-01)

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	12/13/2022	ND	2.23	112	2.00	1.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.453	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.66	111	6.00	0.413	
Total BTEX	<0.300	0.300	12/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	197	98.6	200	0.758	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	204	102	200	0.639	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/15/2022	Sampling Type:	Soil
Project Name:	JAMES E #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: AH - 11 (0-1') (H225847-02)

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	12/13/2022	ND	2.23	112	2.00	1.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.453	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.66	111	6.00	0.413	
Total BTEX	<0.300	0.300	12/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	197	98.6	200	0.758	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	204	102	200	0.639	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/15/2022	Sampling Type:	Soil
Project Name:	JAMES E #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: AH - 12 (0-1') (H225847-03)

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	12/13/2022	ND	2.23	112	2.00	1.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.453	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.66	111	6.00	0.413	
Total BTEX	<0.300	0.300	12/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	197	98.6	200	0.758	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	204	102	200	0.639	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 54.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 60.1 % 46.3-178

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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.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: *Tetra Tech*

Attn: *Christy Lull*

Address: *by email*

City:

State:

Zip:

Phone #:

Fax #:

Company Name: *ConocoPhillips*

Project Manager: *Christy Lull*

Address:

City: State: Zip:

Phone #: *202-MD-024138* Fax #: *202-MD-023792*

Project #: *997-100-003792* Project Owner: *Sally B #1*

Project Name: *Stoney A Water Project*

Project Location: *Eddy County, NM*

Sampler Name: *Edith Bickert*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

13A5847

*AA1-10 (0-1')
AA1-11 (0-1')
AA1-12 (0-1')*

(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		
	<i>5</i>			<input checked="" type="checkbox"/>							<i>12/2/22</i>	
	<i>5</i>			<input checked="" type="checkbox"/>							<i>12/12/22</i>	
	<i>6</i>			<input checked="" type="checkbox"/>							<i>12/12/22</i>	

*TPH
BTEX
Chlorides*

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Relinquished By: *ChB B*

Date: *12/12/22* Time: *12:12 PM*

Relinquished By: *ChB B*

Date: *12/12/22* Time: *12:12 PM*

Received By: *Spodkiewicz*

Date: *12/12/22* Time: *12:12 PM*

Received By: *ChB B*

Observed Temp. °C: *23.2*
Corrected Temp. °C: *21.6*

Sample Condition: Cool Intact

Turnaround Time: *Standard*

Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool Intact

† Cardinal cannot accept verbal changes. Please email changes to celley.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: JAMES E #001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/23 13:22.

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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BG - 1 (0-1') (H230923-01)

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	03/01/2023	ND	416	104	400	0.00	

Sample ID: BG - 1 (2'-3') (H230923-02)

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	0.00	

Sample ID: BG - 1 (4'-5') (H230923-03)

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	416	104	400	0.00	

Sample ID: BG - 1 (6'-7') (H230923-04)

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	03/01/2023	ND	432	108	400	3.77	

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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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BG - 1 (9'-10') (H230923-05)

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	03/01/2023	ND	432	108	400	3.77	

Sample ID: BG - 1 (14'-15') (H230923-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	03/01/2023	ND	432	108	400	3.77	

Sample ID: BG - 1 (19'-20') (H230923-07)

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	3.77	

Sample ID: BG - 1 (24'-25') (H230923-08)

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	432	108	400	3.77	

Sample ID: BG - 1 (29'-30') (H230923-09)

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	3.77	

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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: 03/02/2023
 Project Name: JAMES E #001 RELEASE
 Project Number: 212C-MD-02413
 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: BG - 1 (34'-35') (H230923-10)

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	432	108	400	3.77	

Sample ID: BG - 1 (39'-40') (H230923-11)

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	03/01/2023	ND	432	108	400	3.77	

Sample ID: BG - 1 (44'-45') (H230923-12)

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	03/01/2023	ND	432	108	400	3.77	

Sample ID: BG - 1 (49'-50') (H230923-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/01/2023	ND	432	108	400	3.77	

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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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (0-1') (H230923-14)

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	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	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	992	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 109 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (2'-3') (H230923-15)

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	03/02/2023	ND	2.09	105	2.00	0.931		
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803		
Total BTEX	<0.300	0.300	03/02/2023	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	1040	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33		
DRO >C10-C28*	82.8	10.0	03/01/2023	ND	208	104	200	7.05		
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND						

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (4'-5') (H230923-16)

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	03/02/2023	ND	2.09	105	2.00	0.931		
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803		
Total BTEX	<0.300	0.300	03/02/2023	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	864	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33		
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05		
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND						

Surrogate: 1-Chlorooctane 103 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (6'-7') (H230923-17)

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	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	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	800	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 104 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (8'-9') (H230923-18)

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	03/02/2023	ND	2.09	105	2.00	0.931		
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803		
Total BTEX	<0.300	0.300	03/02/2023	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	640	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33		
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05		
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND						

Surrogate: 1-Chlorooctane 109 % 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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 2A (14'-15') (H230923-19)

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	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	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	240	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (0-1') (H230923-22)

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	03/02/2023	ND	2.09	105	2.00	0.931		
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803		
Total BTEX	<0.300	0.300	03/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	03/01/2023	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	03/01/2023	ND	216	108	200	6.33		
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05		
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND						

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (2'-3') (H230923-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	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	1060	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (4'-5') (H230923-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/01/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1250	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (6'-7') (H230923-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	992	16.0	03/01/2023	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	03/01/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (8'-9') (H230923-26)

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	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	2000	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	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (14'-15') (H230923-27)

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	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	1720	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (19'-20') (H230923-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (24'-25') (H230923-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	784	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (29'-30') (H230923-30)

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	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	192	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (34'-35') (H230923-31)

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	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	192	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 4A (39'-40') (H230923-32)

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	03/02/2023	ND	2.07	103	2.00	17.2	
Toluene*	<0.050	0.050	03/02/2023	ND	2.00	99.9	2.00	17.4	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.95	97.5	2.00	19.9	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.15	102	6.00	20.6	
Total BTEX	<0.300	0.300	03/02/2023	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	128	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	214	107	200	4.48	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	208	104	200	6.02	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Christian Lull
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: (512)565-0190 Fax #:
 Project #: 212C-MD-02413 Project Owner: ConocoPhillips
 Project Name: James E #001 Release
 Project Location: Eddy County, New Mexico
 Sampler Name: Colton Bickerstaff
 P.O. #: Company: Tetra Tech
 Attn: Christian Lull
 Address: EMAIL
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
	BG-1 (0-1')	G	1	X					2/28/2023			X	
	BG-1 (2'-3')	G	1	X					2/28/2023			X	
	BG-1 (4'-5')	G	1	X					2/28/2023			X	
	BG-1 (6'-7')	G	1	X					2/28/2023			X	
	BG-1 (9'-10')	G	1	X					2/28/2023			X	
	BG-1 (14'-15')	G	1	X					2/28/2023			X	
	BG-1 (19'-20')	G	1	X					2/28/2023			X	
	BG-1 (24'-25')	G	1	X					2/28/2023			X	
	BG-1 (29'-30')	G	1	X					2/28/2023			X	
	BG-1 (34'-35')	G	1	X					2/28/2023			X	

PLEASE NOTE: Utility and Design: Cardinal Utility and Design's exclusive service for any claims involving samples based on reported or not, 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above listed theories or otherwise.

Relinquished By: Colton Bickerstaff
 Date: 2/28/23
 Received By: [Signature]
 Date: 2/28/23
 Received By: [Signature]
 Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: #115.5i
 Observed Temp. - C: 10.1c
 Corrected Temp. - C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Turnaround Time: Standard Expedited
 Bacteria (only) sample condition: Cool Heat
 Thermometer ID #113
 Correction Factor -4.5°C
 Verbal Result: Yes No
 Add'l Phone #: [Blank]
 All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com
 REMARKS:

FORM-008 R 3.2 1/00/21
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Christian Lull
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: (512)565-0190 Fax #:
 Project #: 212C-MD-02413 Project Owner: ComocoPhillips
 Project Name: James E #001 Release
 Project Location: Eddy County, New Mexico
 Sampler Name: Colton Bickerstaff
 P.O. #: Company: Tetra Tech
 Attn: Christian Lull
 Address: EMAIL
 City: State: Zip:
 Phone #: Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	HOLD
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:						
BG-1 (39'-40')	G	1	X						2/28/2023				X	
BG-1 (44'-45')	G	1	X						2/28/2023				X	
BG-1 (49'-50')	G	1	X						2/28/2023				X	
BH-2A (0-1')	G	1	X						2/28/2023				X	
BH-2A (2-3')	G	1	X						2/28/2023				X	
BH-2A (4-5')	G	1	X						2/28/2023				X	
BH-2A (6-7')	G	1	X						2/28/2023				X	
BH-2A (8-9')	G	1	X						2/28/2023				X	
BH-2A (14'5')	G	1	X						2/28/2023				X	
BH-2A (19'-20')	G	1	X						2/28/2023				X	

PLEASE NOTE: Lullid just Designate Cardinal facility and client's exclusion records for any data being verified. Based in part on but, shall be limited to the amount paid by the client for the analysis. All data 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 data or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By: Colton Bickerstaff
 Date: 2/28/23
 Received By: *Shodriquer*
 Date: *1/30/23*
 Time: *1330*
 Observed Temp. - C: *5.5°C*
 Corrected Temp. - C: *4.6°C*
 Sample Condition: Cool Indict Yes No
 CHECKED BY: *SKC*
 Initials: *SKC*
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com
 Addtl Phone #:
 Remarks:
 Delivered By: (Circle One) Sampler - Ups - Bus - Other:
 FORM-006 R 3.2 1/06/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:			
Project Manager: Christian Lull		Company: Tetra Tech			
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Christian Lull			
City: Austin		State: TX Zip:			
Phone #: (512)565-0190		Fax #: (512)565-0190			
Project #: 212C-MD-02413		Project Owner: ConocoPhillips			
Project Name: James E #001 Release		State: Zip:			
Project Location: Eddy County, New Mexico		Phone #:			
Sampler Name: Colton Bickerstaff		Fax #:			
Lab I.D.		Sample I.D.			
		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE			
		TIME			
		TPH 8015M			
		BTEX 8021B			
		Chloride SM4500Cl-B			
		X HOLD			

PLEASE NOTE: Tetra Tech and Cardinal Laboratories are not responsible for the accuracy of the results reported on this form. The accuracy of the results reported on this form is dependent on the quality of the sample and the accuracy of the data provided. The accuracy of the results reported on this form is also dependent on the quality of the equipment used and the accuracy of the data provided. The accuracy of the results reported on this form is also dependent on the quality of the equipment used and the accuracy of the data provided.

FORM-005 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabstnm.com



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

March 27, 2023

RYAN DICKERSON

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E #001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 14:27.

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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 (0-1') (H231321-01)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	288	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 (1'-2') (H231321-02)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 (2'-3') (H231321-03)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 (3'-4') (H231321-04)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	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	1330	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 (0-1') (H231321-05)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 (1'-2') (H231321-06)

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	03/24/2023	ND	2.25	112	2.00	7.82	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	6.91	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.20	110	2.00	6.76	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.84	114	6.00	6.00	
Total BTEX	<0.300	0.300	03/24/2023	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	1150	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 (2'-3') (H231321-07)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	1840	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 (3'-4') (H231321-08)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	1880	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 (0-1') (H231321-09)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	128	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 (1'-2') (H231321-10)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	672	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 (2'-3') (H231321-11)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	1310	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 (3'-4') (H231321-12)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	1740	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 (0-1') (H231321-13)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 (1'-2') (H231321-14)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	336	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 (2'-3') (H231321-15)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	1040	16.0	03/27/2023	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	03/24/2023	ND	183	91.6	200	4.68	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	188	94.2	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 (3'-4') (H231321-16)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	1250	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 (0-1') (H231321-17)

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	03/25/2023	ND	2.13	107	2.00	14.0		
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1		
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5		
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5		
Total BTEX	<0.300	0.300	03/25/2023	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	896	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2		
DRO >C10-C28*	144	10.0	03/24/2023	ND	183	91.7	200	9.94		
EXT DRO >C28-C36	22.2	10.0	03/24/2023	ND						

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 (1'-2') (H231321-18)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	2280	16.0	03/27/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	185	92.7	200	14.2		
DRO >C10-C28*	695	10.0	03/24/2023	ND	183	91.7	200	9.94		
EXT DRO >C28-C36	192	10.0	03/24/2023	ND						

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 (2'-3') (H231321-19)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	5520	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	2490	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	606	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 (3'-4') (H231321-20)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	4320	16.0	03/27/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	185	92.7	200	14.2		
DRO >C10-C28*	889	10.0	03/24/2023	ND	183	91.7	200	9.94		
EXT DRO >C28-C36	168	10.0	03/24/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 185 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 E (0-1') (H231321-21)

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	03/25/2023	ND	2.13	107	2.00	14.0		
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1		
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5		
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5		
Total BTEX	<0.300	0.300	03/25/2023	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	2400	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2		
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94		
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND						

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10 W (0-1') (H231321-22)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	16.0	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 E (0-1') (H231321-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	976	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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
 RYAN DICKERSON
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 11 W (0-1') (H231321-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 E (0-1') (H231321-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2023	ND	2.13	107	2.00	14.0		
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1		
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5		
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5		
Total BTEX	<0.300	0.300	03/25/2023	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	144	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2		
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94		
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND						

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 12 W (0-1') (H231321-26)

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	03/25/2023	ND	2.13	107	2.00	14.0	
Toluene*	<0.050	0.050	03/25/2023	ND	2.34	117	2.00	14.1	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.44	122	2.00	12.5	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	7.42	124	6.00	12.5	
Total BTEX	<0.300	0.300	03/25/2023	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	832	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 E (0-1') (H231321-27)

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	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEX	<0.300	0.300	03/24/2023	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	1220	16.0	03/27/2023	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 13 W (0-1') (H231321-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEX	<0.300	0.300	03/24/2023	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	288	16.0	03/27/2023	ND	416	104	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 E (0-1') (H231321-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEX	<0.300	0.300	03/24/2023	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	03/27/2023	ND	416	104	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 14 W (0-1') (H231321-30)

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	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEX	<0.300	0.300	03/24/2023	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	544	16.0	03/27/2023	ND	416	104	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	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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

Company Name: Tetra Tech		BILL TO		ANALYSIS REQUEST	
Project Manager: Ryan Dickerson		P.O. #:			
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech			
City: Austin		Attn: Ryan Dickerson			
Phone #: (512)565-0190		Address: EMAIL			
Fax #: 212C-MD-02413		City:			
Project #: 212C-MD-02413		State:			
Project Name: James E #001 Release		Zip:			
Project Location: Eddy County, NM		Phone #:			
Sampler Name: Colton Bickerstaff		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	
1 AH-10 (0-1')		G 1		X X X X	
2 AH-10 (1-2')		G 1		X X X X	
3 AH-10 (2-3')		G 1		X X X X	
4 AH-10 (3-4')		G 1		X X X X	
5 AH-11 (0-1')		G 1		X X X X	
6 AH-11 (1-2')		G 1		X X X X	
7 AH-11 (2-3')		G 1		X X X X	
8 AH-11 (3-4')		G 1		X X X X	
9 AH-12 (0-1')		G 1		X X X X	
10 AH-12 (1-2')		G 1		X X X X	

TPH 8015M
 BTEX 8021B
 Chloride SM4500CI-B

Vertical Result: Yes No
 Add'l Phone #: _____
 REMARKS: _____

Received By: _____
 Date: 7/2/2023
 Time: 14:37

Observed Temp. °C: 4.8
 Corrected Temp. °C: 4.2

Sample Condition:
 Cool Intact
 No No

Checked By: (Initials) *je*

Thermometer: Standard
 Bath: *VIA Standard 1A1*
 Thermometer ID #113
 Correction Factor: -0.5°C

Microbial (only) Sample Condition:
 Cool Intact
 No No
 Corrected Temp. °C

FORM-006 R 3.2.10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Ryan Dickerson

P.O. #: Company: Tetra Tech

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

State: TX Zip:

Attn: Ryan Dickerson

Phone #: (512)566-0190

Fax #:

Address: EMAIL

Project #: 212C-MD-02413

Project Owner: ConocoPhillips

Project Name: James E #001 Release

Project Location: Eddy County, NM

Sampler Name: Colton Bickerstaff

Lab I.D.:

Sample I.D.:

Lab I.D.	Sample I.D.	(G)RAE OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H231321	AH-12 (2-3)	G	1	X					3/22/2023		X	X	X	
	AH-12 (3-4)	G	1	X					3/22/2023		X	X	X	
	AH-13 (0-1)	G	1	X					3/22/2023		X	X	X	
	AH-13 (1-2)	G	1	X					3/22/2023		X	X	X	
	AH-13 (2-3)	G	1	X					3/22/2023		X	X	X	
	AH-13 (3-4)	G	1	X					3/22/2023		X	X	X	
	AH-14 (0-1)	G	1	X					3/22/2023		X	X	X	
	AH-14 (1-2)	G	1	X					3/22/2023		X	X	X	
	AH-14 (2-3)	G	1	X					3/22/2023		X	X	X	
	AH-14 (3-4)	G	1	X					3/22/2023		X	X	X	

NOTE: Sample and container, container labels and data's verification must be confirmed in field and be signed by the analyst. All claims including those for negligence and any other cause whatsoever shall be deemed denied 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 residential or commercial damage, including without limitation, business interruptions, loss of data, or loss of profits incurred by the client, its subsidiaries, affiliates or successors arising out of or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above substances or other risks.

Relinquished By: Colton Bickerstaff

Date: 3/22/23

Received By: [Signature]

Verbal Result: Yes No

Add'l Phone #: Ryan.Dickerson@tetratech.com

Relinquished By: [Signature]

Date: 3/23/23

Received By: [Signature]

REMARKS:

Delivered By: (Circle One) UPS - Bus - Other:

Observed Temp. °C: 4.8

Corrected Temp. °C: 4.2

Sample Condition: Cool Hot

CHECKED BY: (Initials) V.P.

Thermometer Type: Standard Analytical (only) Sample Condition

Thermometer ID #113

Correction Factor -0.5°C

Observed Temp. °C: Yes No

Corrected Temp. °C: Yes No

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2328 FAX (575) 393-2476

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Ryan Dickerson	P.O. #:
Address: 8911 Capital o Texas Hwy, Suite 2310	Company: Tetra Tech
City: Austin	Attn: Ryan Dickerson
State: TX Zip:	Address: EMAIL
Phone #: (512)565-0190 Fax #:	City:
Project #: 212C-MD-02413 Project Owner: ConocoPhillips	State:
Project Name: James E #001 Release	City:
Project Location: Eddy County, NM	Zip:
Sampler Name: Colton Bickerstaff	Phone #:
	Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
21 AH-10E (0-1')	G	1	X							3/22/2023		X	X	X	
22 AH-10W (0-1')	G	1	X							3/22/2023		X	X	X	
23 AH-11E (0-1')	G	1	X							3/22/2023		X	X	X	
24 AH-11W (0-1')	G	1	X							3/22/2023		X	X	X	
25 AH-12E (0-1')	G	1	X							3/22/2023		X	X	X	
26 AH-12W (0-1')	G	1	X							3/22/2023		X	X	X	
27 AH-13E (0-1')	G	1	X							3/22/2023		X	X	X	
28 AH-13W (0-1')	G	1	X							3/22/2023		X	X	X	
29 AH-14E (0-1')	G	1	X							3/22/2023		X	X	X	
30 AH-14W (0-1')	G	1	X							3/22/2023		X	X	X	

PLEASE NOTE: Quality and Quantity Chain of Custody and Chain of Custody are required for any data to be used in any report. All data including those for negligence and any other cause whatsoever shall be deemed valid unless noted in writing and included 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 data, or loss of profits incurred by client, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickerstaff	Date: 3/22/23	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: [Signature]	Date: 4/27	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)	Thermometer ID #113
	4.8 4.2		[Signature]	Correction Factor -0.5°C

FORM-006 R 3.2 10/07/21
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 15, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E #001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/10/23 12:43.

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.

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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (5'-6') (H232327-01)

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	05/12/2023	ND	2.08	104	2.00	6.56	
Toluene*	<0.050	0.050	05/12/2023	ND	2.05	103	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.04	102	2.00	7.17	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.23	104	6.00	6.45	
Total BTEX	<0.300	0.300	05/12/2023	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	2600	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	412	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	111	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (7'-8') (H232327-02)

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	05/12/2023	ND	2.08	104	2.00	6.56	
Toluene*	<0.050	0.050	05/12/2023	ND	2.05	103	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.04	102	2.00	7.17	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.23	104	6.00	6.45	
Total BTEX	<0.300	0.300	05/12/2023	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	3280	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	134	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (9'-10') (H232327-03)

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	05/11/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/11/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/11/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/11/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/11/2023	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	2880	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (14'-15') (H232327-04)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	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	4800	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (19'-20') (H232327-05)

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	05/12/2023	ND	2.06	103	2.00	2.36		
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01		
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52		
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04		
Total BTEX	<0.300	0.300	05/12/2023	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	5200	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624		
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11		
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND						

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (24'-25') (H232327-06)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	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	6260	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (29'-30') (H232327-07)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	4320	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (34'-35') (H232327-08)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	3920	16.0	05/11/2023	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	05/11/2023	ND	178	88.9	200	0.0624	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	163	81.7	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (39'-40') (H232327-09)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	5200	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (44'-45') (H232327-10)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	4400	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (49'-50') (H232327-11)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	5760	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (54'-55') (H232327-12)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	4640	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (59'-60') (H232327-13)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	4560	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (64'-65') (H232327-14)

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	05/12/2023	ND	2.06	103	2.00	2.36		
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01		
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52		
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04		
Total BTEX	<0.300	0.300	05/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	4160	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53		
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND						

Surrogate: 1-Chlorooctane 94.7 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (69'-70') (H232327-15)

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	05/12/2023	ND	2.06	103	2.00	2.36		
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01		
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52		
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04		
Total BTEX	<0.300	0.300	05/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	4320	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53		
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND						

Surrogate: 1-Chlorooctane 88.0 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (74'-75') (H232327-16)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	3600	16.0	05/11/2023	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	05/11/2023	ND	183	91.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	168	84.2	200	8.20	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 5 (79'-80') (H232327-17)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	240	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 106 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (5'-6') (H232327-18)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1360	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (7'-8') (H232327-19)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	2480	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (9'-10') (H232327-20)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	6000	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (14'-15') (H232327-21)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	6400	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 111 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (19'-20') (H232327-22)

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	05/12/2023	ND	2.06	103	2.00	2.36	
Toluene*	<0.050	0.050	05/12/2023	ND	2.17	109	2.00	3.01	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.26	113	2.00	1.52	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.68	111	6.00	2.04	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	5200	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: BH - 6 (24'-25') (H232327-23)

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	05/12/2023	ND	2.09	105	2.00	5.29	
Toluene*	<0.050	0.050	05/12/2023	ND	2.15	108	2.00	5.08	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.11	106	2.00	6.93	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.61	110	6.00	6.42	
Total BTEX	<0.300	0.300	05/12/2023	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	3760	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	JAMES E #001 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02413	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: AH - 10E - 2 (0-1') (H232327-24)

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	05/12/2023	ND	2.09	105	2.00	5.29	
Toluene*	<0.050	0.050	05/12/2023	ND	2.15	108	2.00	5.08	
Ethylbenzene*	<0.050	0.050	05/12/2023	ND	2.11	106	2.00	6.93	
Total Xylenes*	<0.150	0.150	05/12/2023	ND	6.61	110	6.00	6.42	
Total BTEX	<0.300	0.300	05/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	112	16.0	05/11/2023	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	05/11/2023	ND	193	96.6	200	0.452	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	175	87.5	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 108 % 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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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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:	
Project Manager: Christian Lull		Company: Tetra Tech	
Address: 9911 Capital o Texas Hwy, Suite 2310		Attn: Christian Lull	
City: Austin	State: TX	Zip:	
Phone #: (512)565-0190	Fax #:	Address: EMAIL	
Project #: 212C-MD-02413	Project Owner: ConocoPhillips	City:	Zip:
Project Name: James E #001 Release		State:	Zip:
Project Location: Eddy County, New Mexico		Phone #:	Fax #:
Sampler Name: Colton Bickerstaff			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER						
	BH-5 (S-6)	G 1	X							5/10/2023		X	X	X	
	BH-5 (7-8)	G 1	X							5/10/2023		X	X	X	
	BH-5 (9-10)	G 1	X							5/10/2023		X	X	X	
	BH-5 (14-15)	G 1	X							5/10/2023		X	X	X	
	BH-5 (19-20)	G 1	X							5/10/2023		X	X	X	
	BH-5 (24-25)	G 1	X							5/10/2023		X	X	X	
	BH-5 (29-30)	G 1	X							5/10/2023		X	X	X	
	BH-5 (34-35)	G 1	X							5/10/2023		X	X	X	
	BH-5 (39-40)	G 1	X							5/10/2023		X	X	X	
	BH-5 (44-45)	G 1	X							5/10/2023		X	X	X	

PLEASE NOTE: Samples and containers Cardinal sends and aren't returned unless they are returned to us. If you are returning samples to us, please include the account card for the samples by the address. All orders including those for negligence and any other cause whatsoever shall be deemed waived unless noted 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, loss of profits, loss of data, or loss of business, arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above causes of actions or otherwise.

Relinquished By: Colton Bickerstaff
Date: 5/10/23
Received By: [Signature]
Date: 7/2/23
Time: [Blank]
Remarks: [Blank]

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: [Blank]

Uf-erved Temp. - C: 3.4
Cool - Yes No
Sample Condition: Cool Moist Yes No
Checked By: [Signature]
Thermometer ID: #113
Correction Factor: -0.8°C
Observed Temp. °C: [Blank]
Concated Temp. °C: [Blank]

FORN-006 R.3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Christian Lull
Address: 8911 Capital o Texas Hwy, Suite 2310
City: Austin State: TX Zip:
Phone #: (512)565-0190 Fax #:
Project #: 212C-MD-02413 Project Owner: ConocoPhillips
Project Name: James E #001 Release
Project Location: Eddy County, New Mexico
Sampler Name: Colton Bickerstaff

P.O. #: Company: Tetra Tech
Attn: Christian Lull
Address: EMAIL
City: State: Zip:
Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500C1-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
	11 BH-5 (49-50)	G 1	X							5/10/2023		X	X	X	
	12 BH-5 (54-55)	G 1	X							5/10/2023		X	X	X	
	13 BH-5 (59-60)	G 1	X							5/10/2023		X	X	X	
	14 BH-5 (64-65)	G 1	X							5/10/2023		X	X	X	
	15 BH-5 (69-70)	G 1	X							5/10/2023		X	X	X	
	16 BH-5 (74-75)	G 1	X							5/10/2023		X	X	X	
	17 BH-5 (79-80)	G 1	X							5/10/2023		X	X	X	
	18 BH-6 (5-6)	G 1	X							5/10/2023		X	X	X	
	19 BH-6 (7-8)	G 1	X							5/10/2023		X	X	X	
	20 BH-6 (9-10)	G 1	X							5/10/2023		X	X	X	

FOR LAB USE ONLY

Relinquished By: Colton Bickerstaff
Date: 5/10/23
Received By: [Signature]
Date: 7/2/23
Time: [Signature]

Left Hand By: (Circle One)
Sample: JS - Bus - Other:

Observed Temp.: C 3.4
Corrected Temp.: C 2.8

Sample Condition:
Cool Moist Wet Dry Other

Checked By: [Signature]

Remarks: All results are emailed. Please provide Email address: Christian.Lull@tetratech.com

Thermometer ID #113
Correction Factor -0.5°C

Standard Backs (only) Sample Condition

Corrected Temp.: C

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FORM-008 R.3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Christian Lujal
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: 512-565-0190 Fax #:
 Project #: 212C-MD-02413 Project Owner: ConocoPhillips
 Project Name: James E #001 Release
 Project Location: Eddy County, New Mexico
 Sampler Name: Colton Bickerstaff
 P.O. #: Company: Tetra Tech
 Attn: Christian Lujal
 Address: EMAIL
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500C1-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
	BH-6 (14-15')	G 1	X								5/10/2023		X	X	X	
	BH-6 (19-20')	G 1	X								5/10/2023		X	X	X	
	BH-6 (24-25')	G 1	X								5/10/2023		X	X	X	
	AH-10E-2 (0-1')	G 1	X								5/10/2023		X	X	X	

PLEASE NOTE: Tetra Tech and Cardinal Laboratories are not responsible for any data resulting from the use of this form. The user of this form is responsible for the accuracy of the information provided. Cardinal Laboratories and Tetra Tech are not responsible for any data resulting from the use of this form. The user of this form is responsible for the accuracy of the information provided.

Relinquished By: Colton Bickerstaff
 Date: 5/10/23
 Received By: Christian Lujal
 Date: 5/10/23
 Time: 2:43
 Delivered By: (Circle One) UPS - Bus - Other: 3.9
 Corrected Temp. °C: 3.8
 Sample Condition: Cool Heat
 Checked By: (Initials) JLO
 Remarks: All results are emailed. Please provide Email address: Christian.Lujal@tetratech.com
 Add'l Phone #: _____
 Verbal Result: Yes No
 Add'l Sample Condition: Yes No
 Corrected Temp. °C: _____

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

APPENDIX E

Regulatory Correspondence

Dickerson, Ryan

From: OCDOnline@state.nm.us
Sent: Tuesday, November 9, 2021 11:31 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 38912

⚠ 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 CONOCOPHILLIPS COMPANY),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2007952227, for the following reasons:

- **The Remediation Plan is denied: The release will need to be fully remediated on pad to the strictest closure criteria standards due to high karst potential. All sample points, except the requested sample points for deferral, must have contaminated soil removed before a deferral request is submitted. The only remediation that should remain are the sample points that are being requested for deferral. If equipment is present, specify exactly which sample points you are asking for a deferral on and the reason the contaminants cannot be removed. Due to the sensitive nature of the site, the alternative sampling plan is denied. Please collect confirmation samples, representing no more than 200 ft². The liner installation at 4 feet is denied. The entire off-pad portion of the release (including the legacy reserve pit) must be horizontally and vertically delineated/excavated to meet reclamation requirements.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 38912.

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

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

APPENDIX F Karst Survey Report



**KARST SURVEY OF THE PROPOSED
James E #001 Tubing Line Release
EDDY COUNTY, NEW MEXICO**

SECTION 11; TOWNSHIP 22S; RANGE 30E

NUMBER: NMNM 0479142

Report Prepared for:

Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Carlsbad, New Mexico 88220

On Behalf of:

ConocoPhillips
925 N. Eldridge Parkway
Houston, TX 77079

Report Prepared by:

Goshawk Environmental Consulting, Inc.
P.O. Box 735
Buda, Texas 78610

April 2025





TABLE OF CONTENTS

1.0 BACKGROUND	1
2.0 METHODOLOGY	1
2.1 RESOURCE REVIEW	2
2.2 FIELD INVESTIGATION	3
3.0 CONCLUSIONS AND RECOMMENDATIONS.....	3
REFERENCES.....	3

APPENDICES

- A MAPS**
- B PHOTOGRAPHS**





1.0 BACKGROUND

An accidental release of contaminants occurred on a ConocoPhillips (Conoco) tubing line, resulting in approximately 0.05 acres of contaminants being released within a high karst potential occurrence zone.

The release was within gypsum karst terrain, a landform characterized by underground drainage through solutionally enlarged conduits. Gypsum karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes that lead to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers in the region.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) as areas with low, medium, high, or critical karst potential occurrence zones. These zones are based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers. The release occurred in a high karst potential occurrence zone (Map 1), on federally owned land (Map 2).

High karst potential occurrence zones are defined by the BLM as areas in known soluble rock types that exist at surface level or within 300 feet of the surface but may have a shallow insoluble overburden or soils that mask surface features. These areas may contain isolated karst features, such as caves and sinkholes. Sinkholes and cave entrances collect water and can accumulate rich, organic materials and soils. The stable microclimate near cave entrances supports a greater diversity and density of plant life, which provides habitat for a greater diversity and density of wildlife. The interior of the cave supports a large variety of troglobitic, or cave environment-dependent, species. Troglobitic species have adapted specifically to the cave environment due to constant temperatures, constant high humidity, and total darkness.

2.0 METHODOLOGY

Goshawk Environmental Consulting, Inc. (Goshawk) conducted a karst survey of the release, which included a resource review, field investigation, and report of findings. The resource review was performed prior to the field investigation to gather site-specific information and evaluate the potential for karst features within the release area. The field investigation included an extensive search for karst features, with special attention given to areas identified in the resource review as potential karst areas. Additionally, former land use practices and modifications were evaluated.

The karst survey was performed in accordance with BLM CFO Karst Survey Requirements. Utilizing GIS software, a 200-meter karst survey corridor was placed around the release area. The resulting survey area covered 47.09 acres. The surveyors walked the survey area systematically, attempting to maintain survey transects spaced no farther than 50 meters apart. Maintaining transects at 50-meter intervals was not always possible due to vegetation and other surface restrictions. Goshawk utilized Avenza Maps to record possible karst features located during the field investigation, as well as to record the surveyor's tracks. Digital photographs of the survey area were taken to document current conditions.





2.1 RESOURCE REVIEW

The resource review included inspection of the US Geological Survey (USGS) Livingston Ridge, New Mexico topographic quadrangle; Federal Emergency Management Administration (FEMA) National Flood Hazard Data; Geologic Map of New Mexico; Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) database; and recent aerial orthoimagery.

2.1.1 USGS Topographic Map

The USGS topographic quadrangle (Map 3) indicates the release area is on gently to moderately sloping terrain. Mapped elevations range from approximately 3,000 to 3,210 feet above mean sea level. The topographic map indicates the karst survey area is within grassland (white background). One unimproved road is mapped intersecting the southeastern corner of the pad on which the release occurred. There are no mapped water features indicated within the release area. However, there are three unnamed tributaries within 350 feet of the release area. The release area is drained by overland sheet flow toward the northwest into the multiple unnamed tributaries dissecting the area. There are no features on the topographic map that would suggest potential karst within the survey area.

2.1.2 FEMA National Flood Hazard Data

The FEMA National Flood Hazard data indicates the karst survey area is within Zone X, which is defined as areas outside special flood hazard area (Map 4). The nearest floodplain is approximately 4.8 miles north of the release area.

2.1.3 Geologic Map of New Mexico

The geologic map (Map 5) indicates the survey area is underlain by the Piedmont alluvial deposits (Qp). Piedmont alluvial deposits are associated with higher gradient tributaries that border major stream valleys, alluvium from piedmont slopes, and alluvial fans (King 1948). Though it is not uncommon for any of the geologic formations of the area to exhibit karst features, the Geologic Map of New Mexico does not provide specific evidence that karst features may exist within the survey area.

2.1.4 Soils Map

The NRCS SSURGO spatial data (Map 6) indicates the soil map units underlying the survey area are Pajarito-Dune land complex (PD). The Pajarito-Dune land complex series consists of very deep and well-drained fine sand soils. These soils are typically found on plains and alluvial fans. Runoff is very slow and permeability is moderately rapid (United States Department of Agriculture). The soil map units do not provide specific evidence of karst features within the survey area.

2.1.5 Aerial Orthoimagery

The aerial orthoimagery (Map 7) indicates the survey area is within a sparse shrubland vegetative community. The unimproved road depicted on the topographic map is visible on the aerial orthoimagery as a caliche access road. Channelization within the unnamed tributaries are visible along the tributary corridors. There is no evidence on the aerial orthoimagery that would suggest potential karst features within the survey area.





2.2 FIELD INVESTIGATION

Goshawk conducted the field investigation on 25 March 2025 within the karst survey area. The field investigation was conducted on foot by Zane Homesley (Surveyor 1) and Thomas Norris (Surveyor 2). The GPS tracks for the karst surveyors are indicated in Map 8.

Terrain within the survey area was gently to moderately sloping (Photo 1). A caliche well pad was located directly south of the release area. The caliche road identified during the field investigation was consistent with that shown on the aerial orthoimagery.

The vegetative community observed during the field investigation was consistent with that shown on the topographic map and aerial orthoimagery. The shrubland areas appeared to be closely associated with loamy soils (Photo 2). The primary species noted within the shrublands included creosote, honey mesquite, broom snakeweed, prickly pear, fourwing saltbrush, and yucca. Vegetative coverage was estimated at 40-45 percent with good visibility of the ground surface. No potential karst features were observed within the survey area during the field investigation; however, subsurface voids not visible on the surface may still exist.

3.0 SUMMARY

Although unidentified subsurface karst features within the survey area are possible, no obvious potential karst features were identified during an extensive survey of the area. Additionally, no impacts to potential karst features by the contaminants released from the tubing line were identified.

REFERENCES

King, Philip B.

1948 Geology of the Southern Guadalupe Mountains Texas. Geological Survey Professional Paper #215. Pp. 91 and 155. United States Department of the Interior. United States Printing Office, Washington.

New Mexico Bureau of Geology and Mineral Resources

2003 Geologic Map of New Mexico, Scale 1:500,000.

US Department of Agriculture

2007 Electronic document, <https://soilseries.sc.egov.usda.gov/osdname.aspx>, accessed 17 April 2025.





APPENDIX A

MAPS

P.O. BOX 735



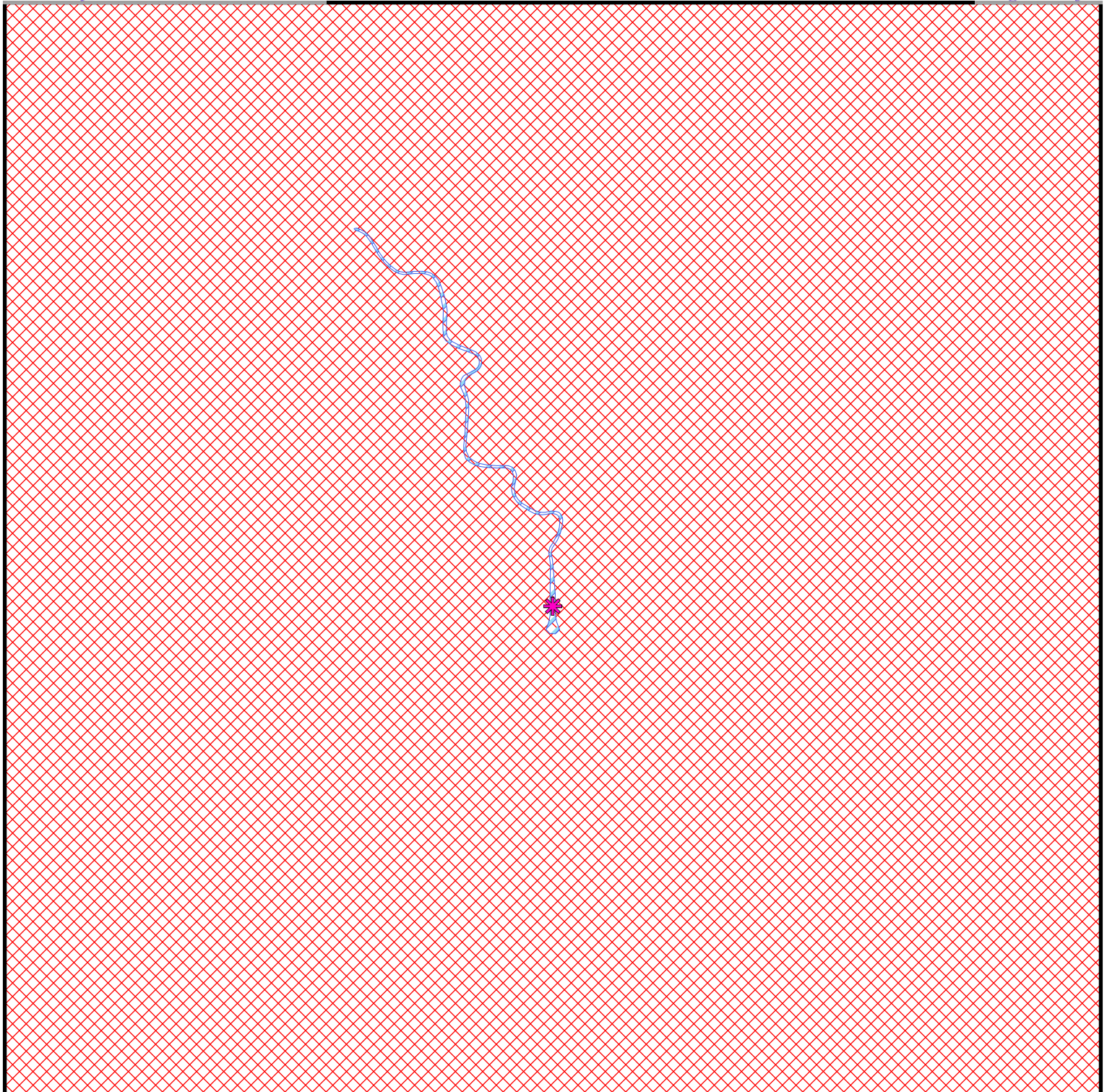
BUDA, TX 78610



PH: 737-888-1136



WWW.GOSHAWKENV.COM



Accidental Release	Zone
Release Location	High
Release Area	

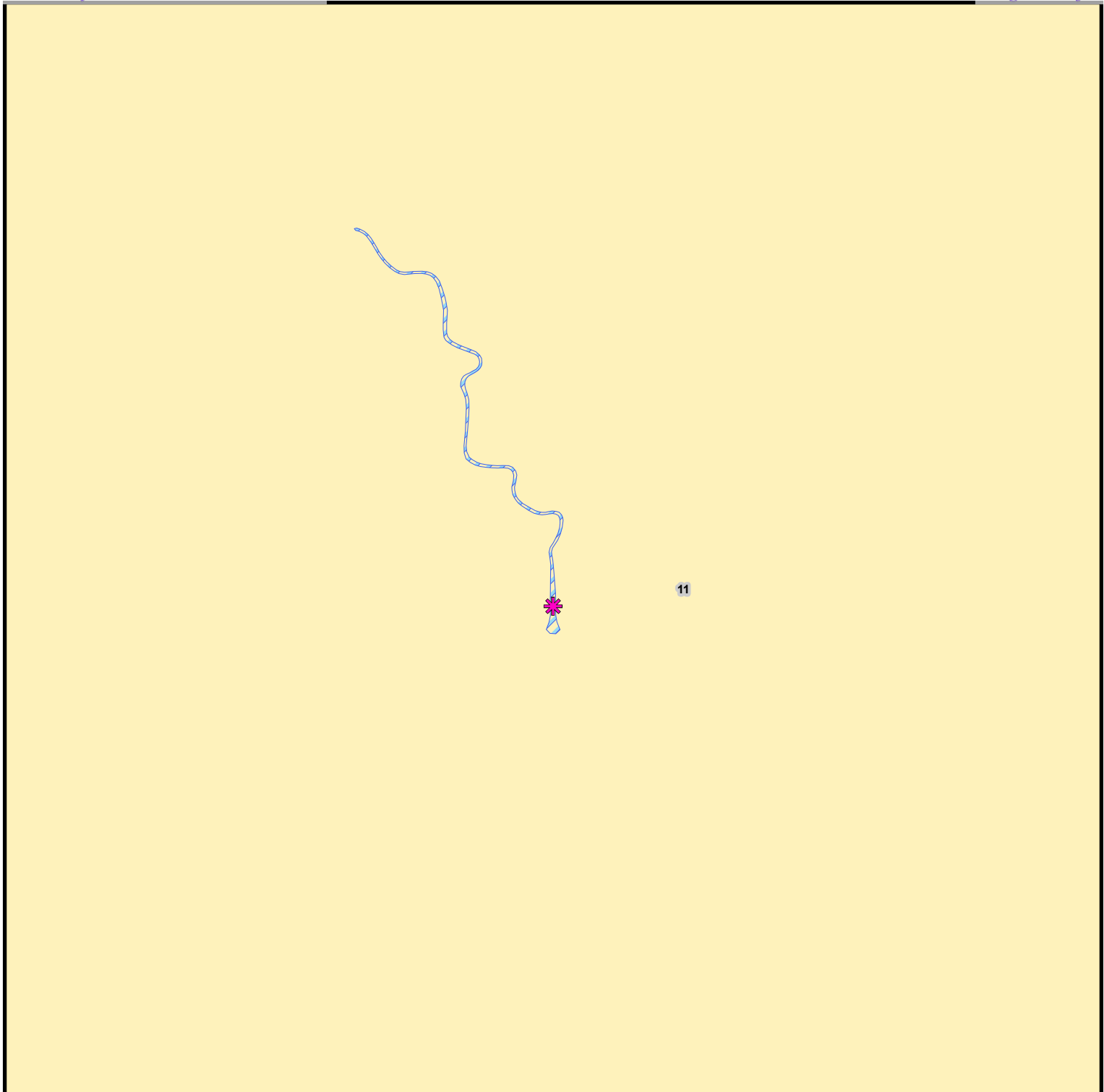
Map Source: U.S. Bureau of Land Management - New Mexico State Office - GIS Data Download.

0 75 150 Feet

Map 1
 Karst Potential Occurrence Zones
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

Date: 17 April 2025



Accidental Release	Surface Ownership
Release Location	Bureau of Land Management
Release Area	

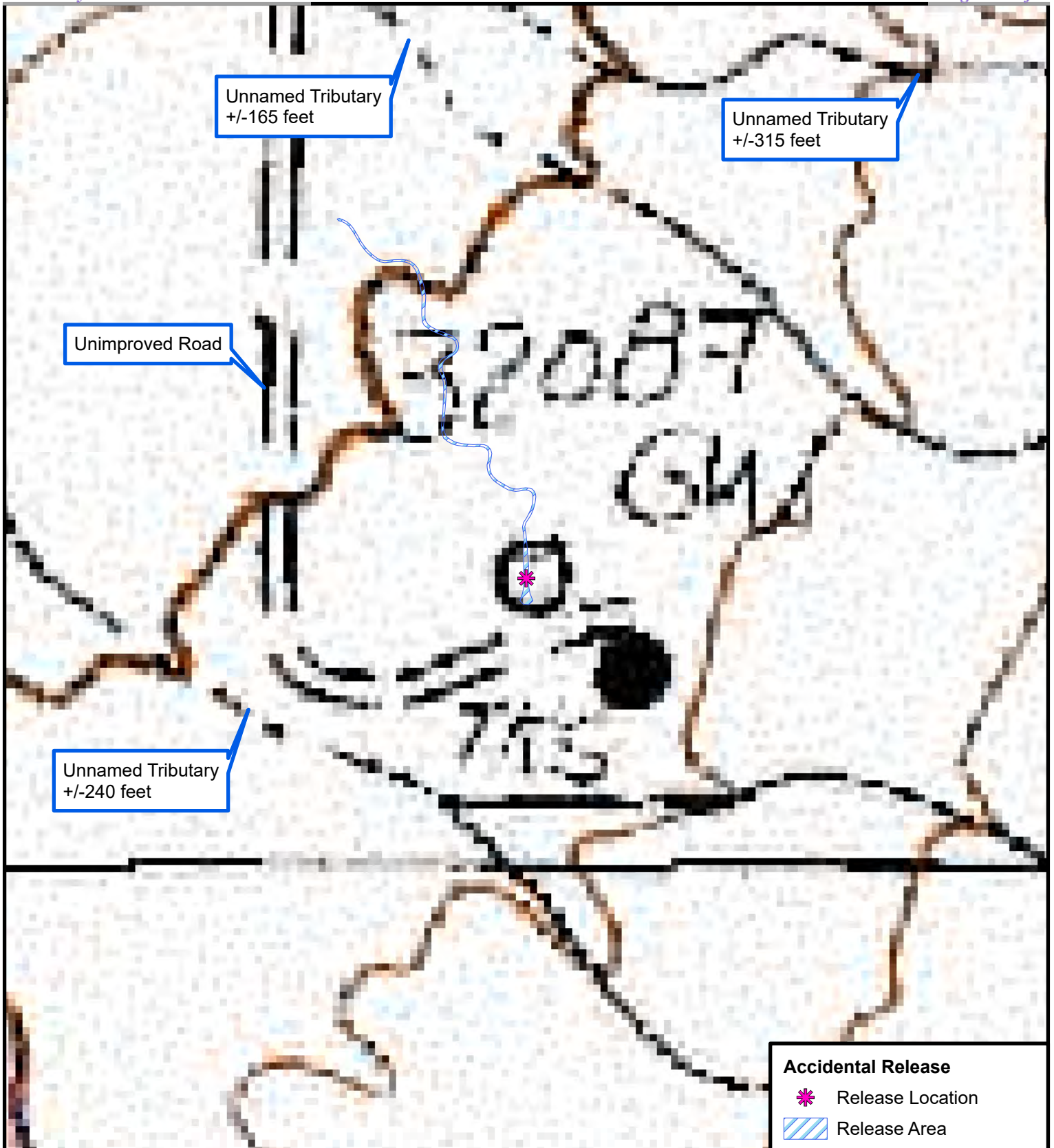
Map Source: U.S. Bureau of Land Management - New Mexico State Office - GIS Data Download.

0 75 150 Feet



Map 2
Surface Ownership
Eddy County, New Mexico

James E #001 Tubing Line
Township 22S; Range 30E; Section 11

Date: 17 April 2025

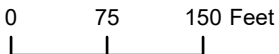


Accidental Release

-  Release Location
-  Release Area

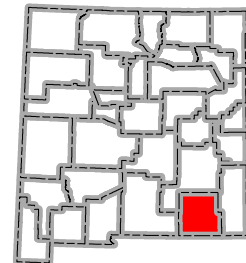
Map Source: USGS, Livingston Ridge, New Mexico Quadrangle.

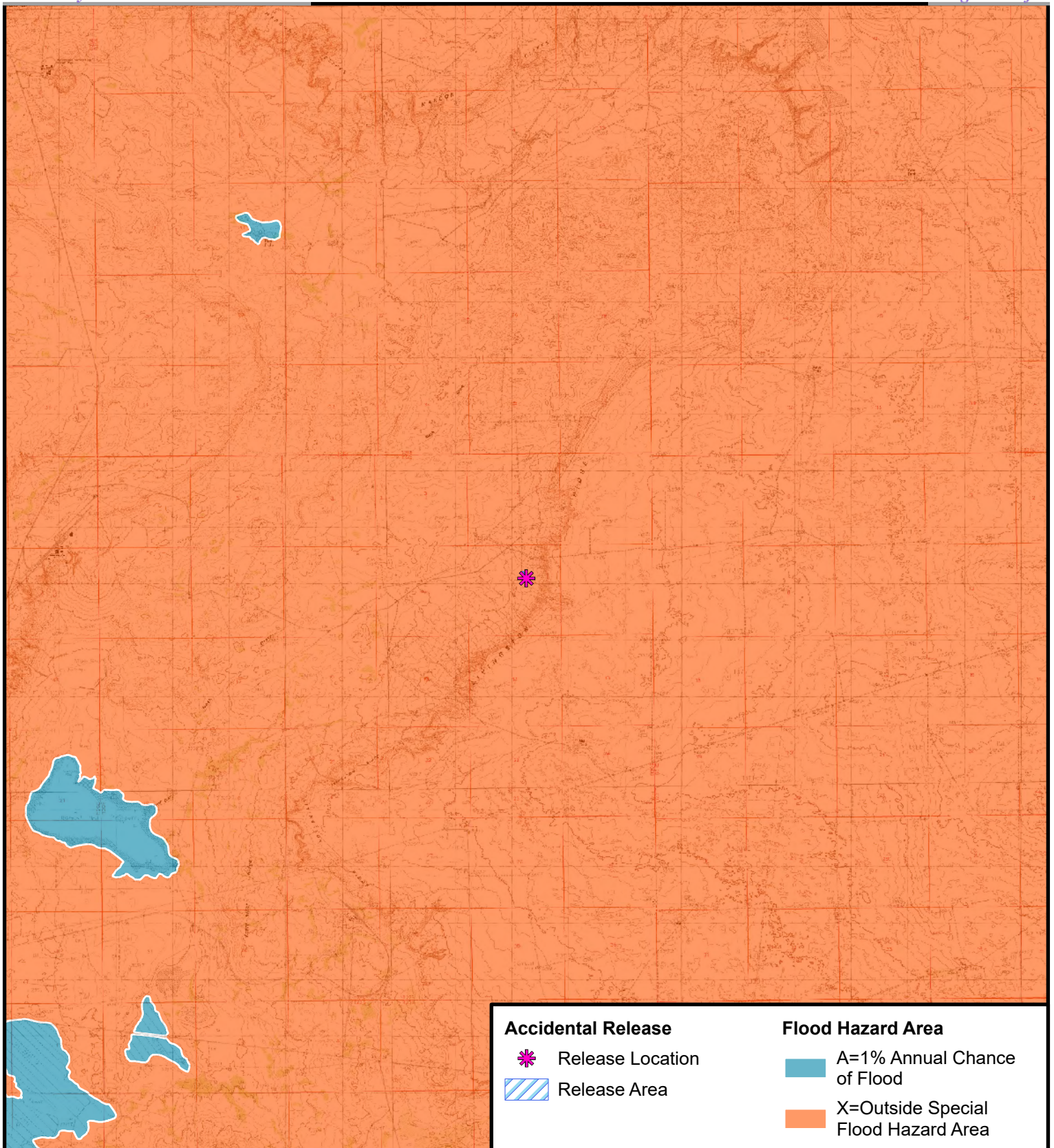
Date: 17 April 2025



Map 3
 USGS Topographic
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11





Accidental Release	Flood Hazard Area
Release Location	A=1% Annual Chance of Flood
Release Area	X=Outside Special Flood Hazard Area

Map Source: FEMA, DFIRM Database, Eddy County, New Mexico; Panels #48013C0500C; Effective Date: November 04, 2010. USGS, Livingston Ridge, New Mexico Quadrangle.

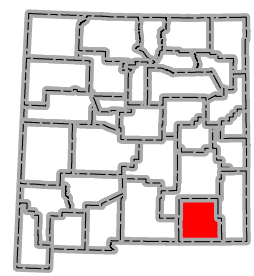
0 3,000 6,000 Feet

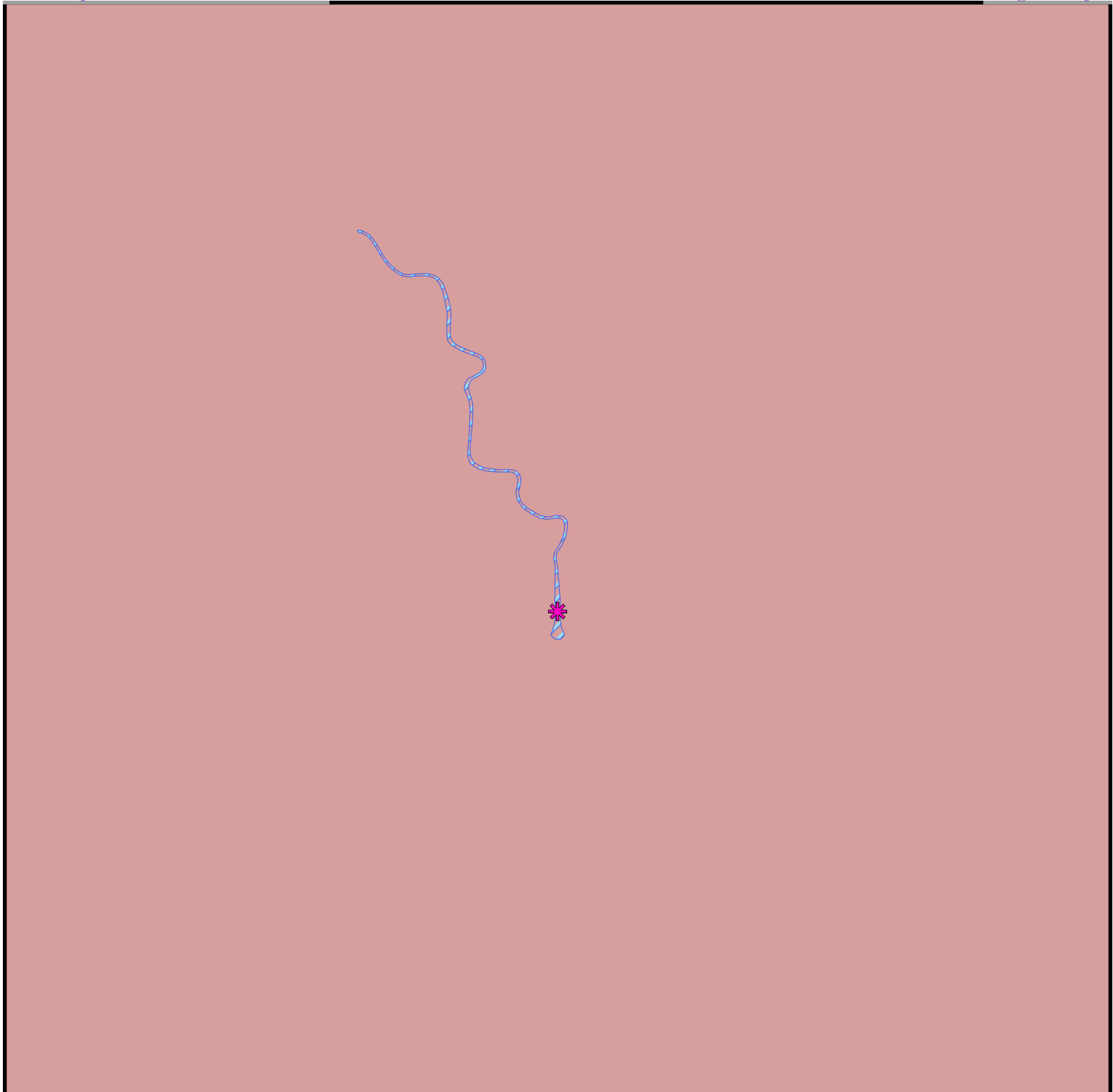


Map 4
FEMA Flood Hazard Area
 Eddy County, New Mexico



James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

Date: 17 April 2025






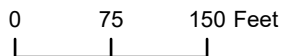
Accidental Release

-  Release Location
-  Release Area

Geologic Map Units within Survey Area

-  Qp=Piedmont alluvial deposits

Map Source: New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, 1:500,000.

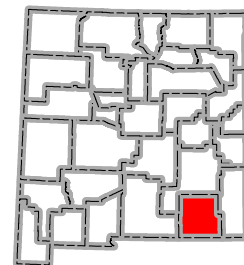


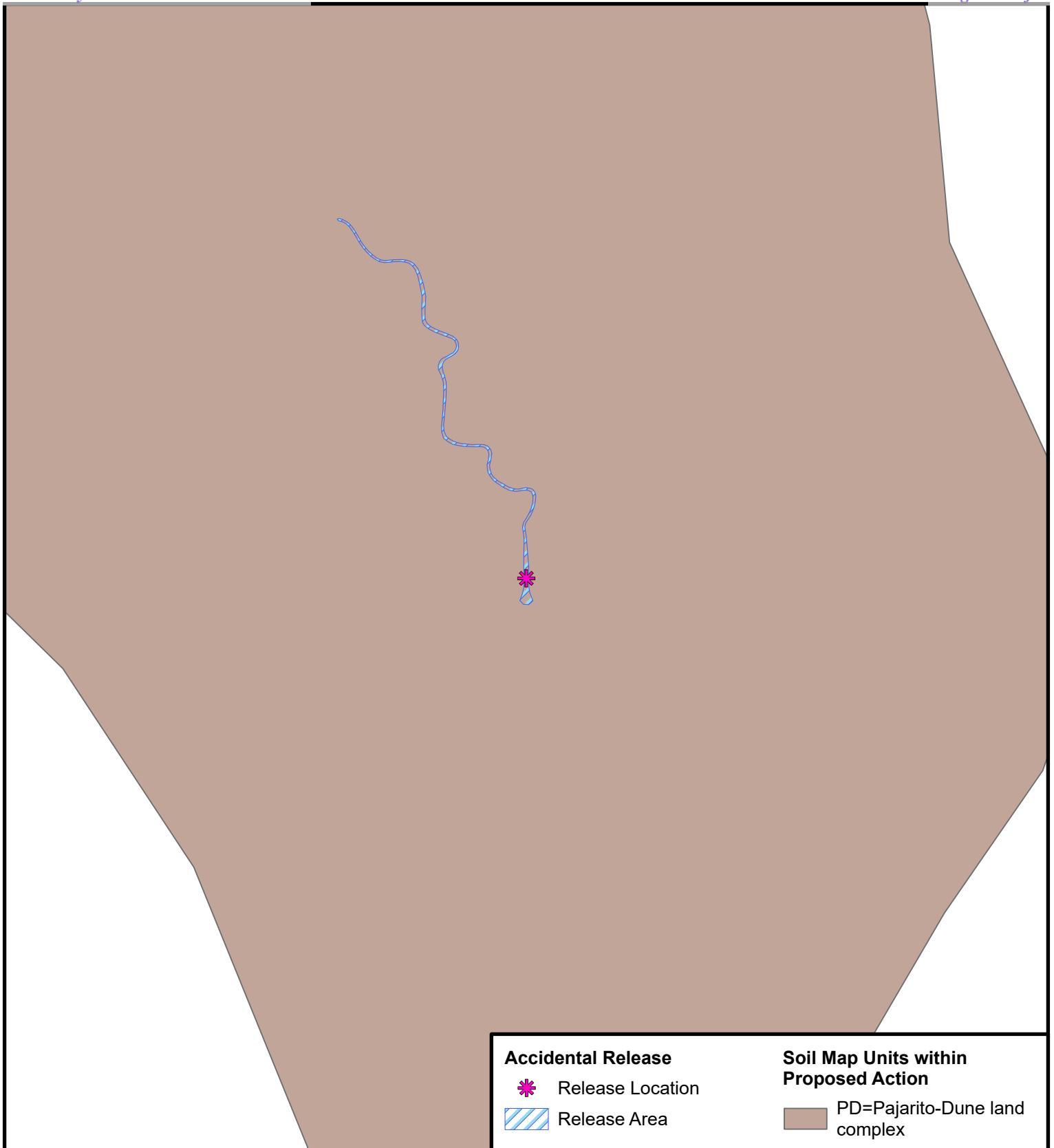
TOWN




Map 5
 Geologic Map
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

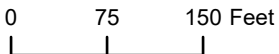
Date: 17 April 2025





<p>Accidental Release</p> <p> Release Location</p> <p> Release Area</p>	<p>Soil Map Units within Proposed Action</p> <p> PD=Pajarito-Dune land complex</p>
--	--

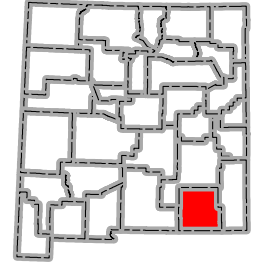
Map Source: USDA/NRCS - National Geospatial Center of Excellence. Soil Survey Geographic (SSURGO) Eddy County, New Mexico.

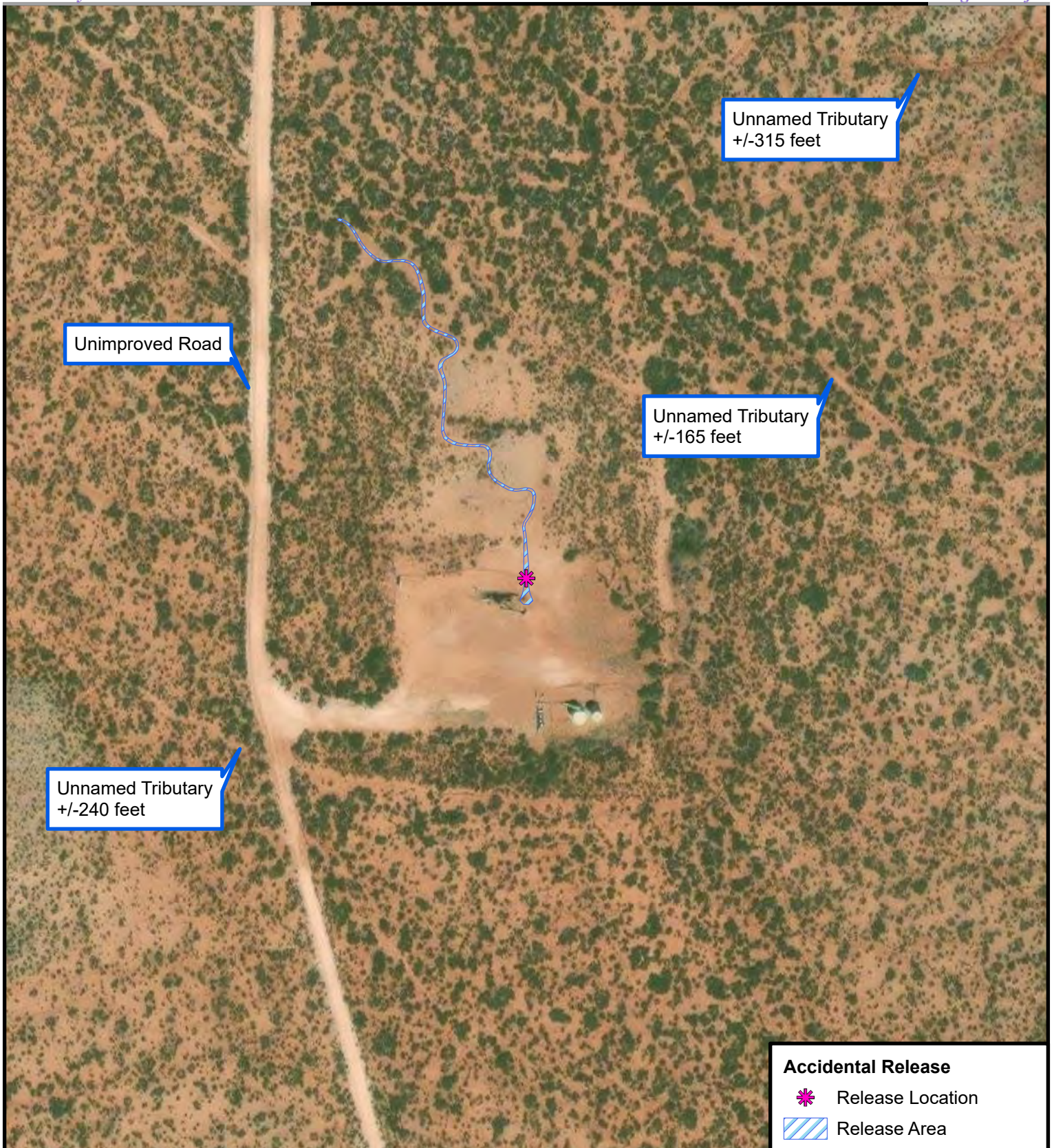


Map 6
 NRCS SSURGO
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

Date: 17 April 2025







Unimproved Road

Unnamed Tributary +/-315 feet

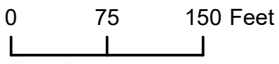
Unnamed Tributary +/-165 feet

Unnamed Tributary +/-240 feet

Accidental Release

-  Release Location
-  Release Area

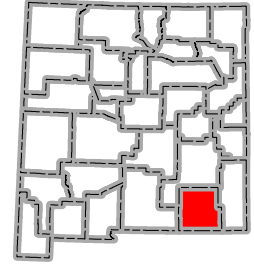
Map Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGrid, IGN, and the GIS User Community.

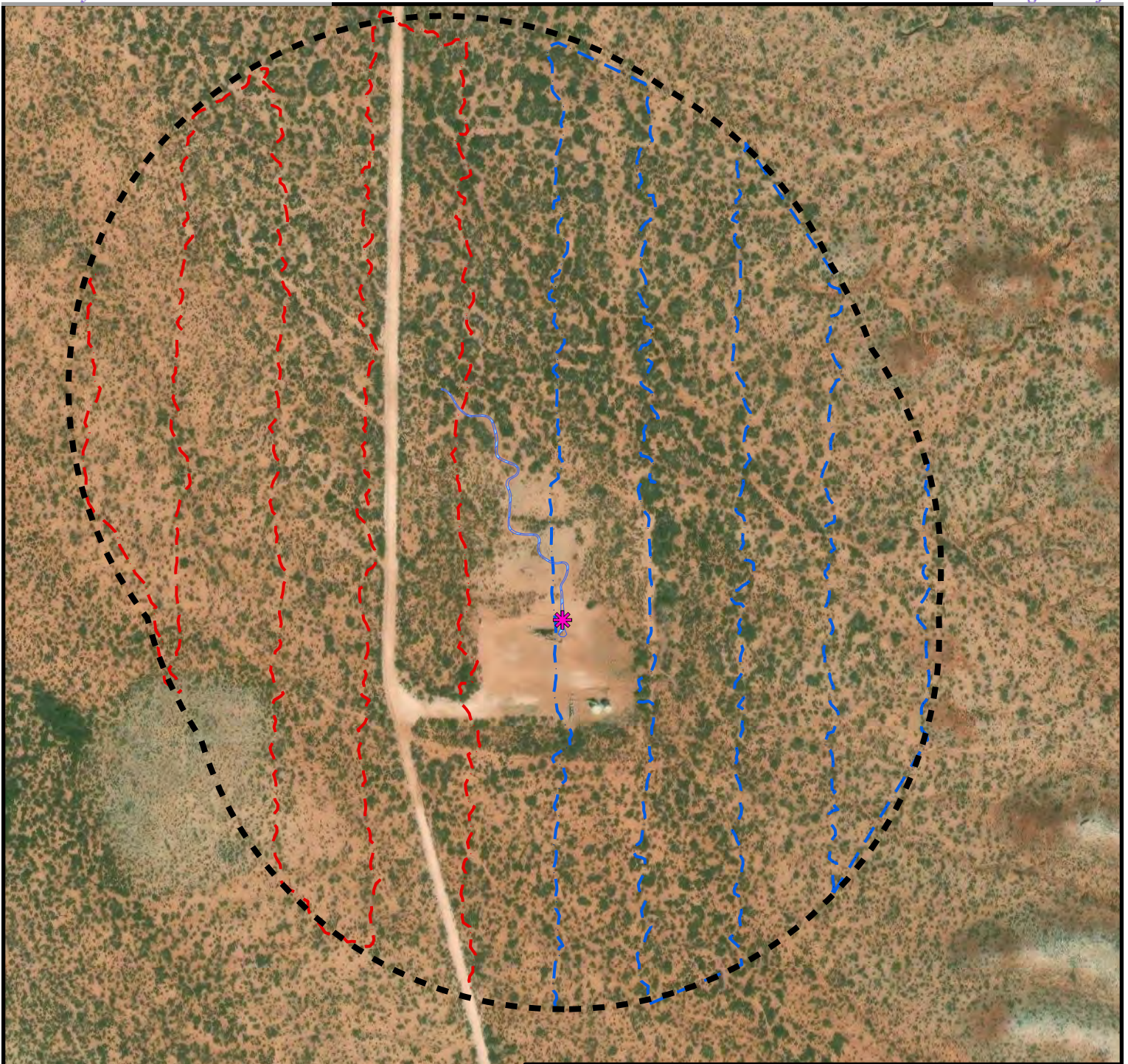







Map 7
 Aerial Orthoimagery
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

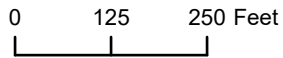
Date: 17 April 2025





<p>Accidental Release</p> <ul style="list-style-type: none">  Release Location  Release Area 	<p>Karst Survey</p> <ul style="list-style-type: none">  Survey Area (47.09 acres)  Surveyor 1  Surveyor 2
---	--

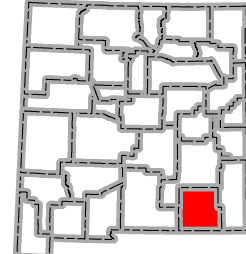
Map Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGrid, IGN, and the GIS User Community.



Map 8
 Karst Survey
 Eddy County, New Mexico

James E #001 Tubing Line
 Township 22S; Range 30E; Section 11

Date: 17 April 2025





APPENDIX B

PHOTOS





Photo #: 1	Date: 25 March 2025	<p>T. Norris, Goshawk ECI</p> <p>James E #001 Release 25 Mar 2025</p>
Gently to Moderately Sloping Terrain within Release Area		

Photo #: 2	Date: 25 March 2025	<p>T. Norris, Goshawk ECI</p> <p>James E #001 Release 25 Mar 2025</p>
Typical Shrubland Vegetation Associated with Loamy Soils Within Release Area		



APPENDIX G

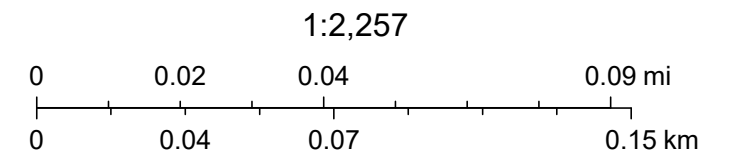
REVISED Site Characterization Data

OCD Hydrology



6/16/2025, 2:15:16 PM

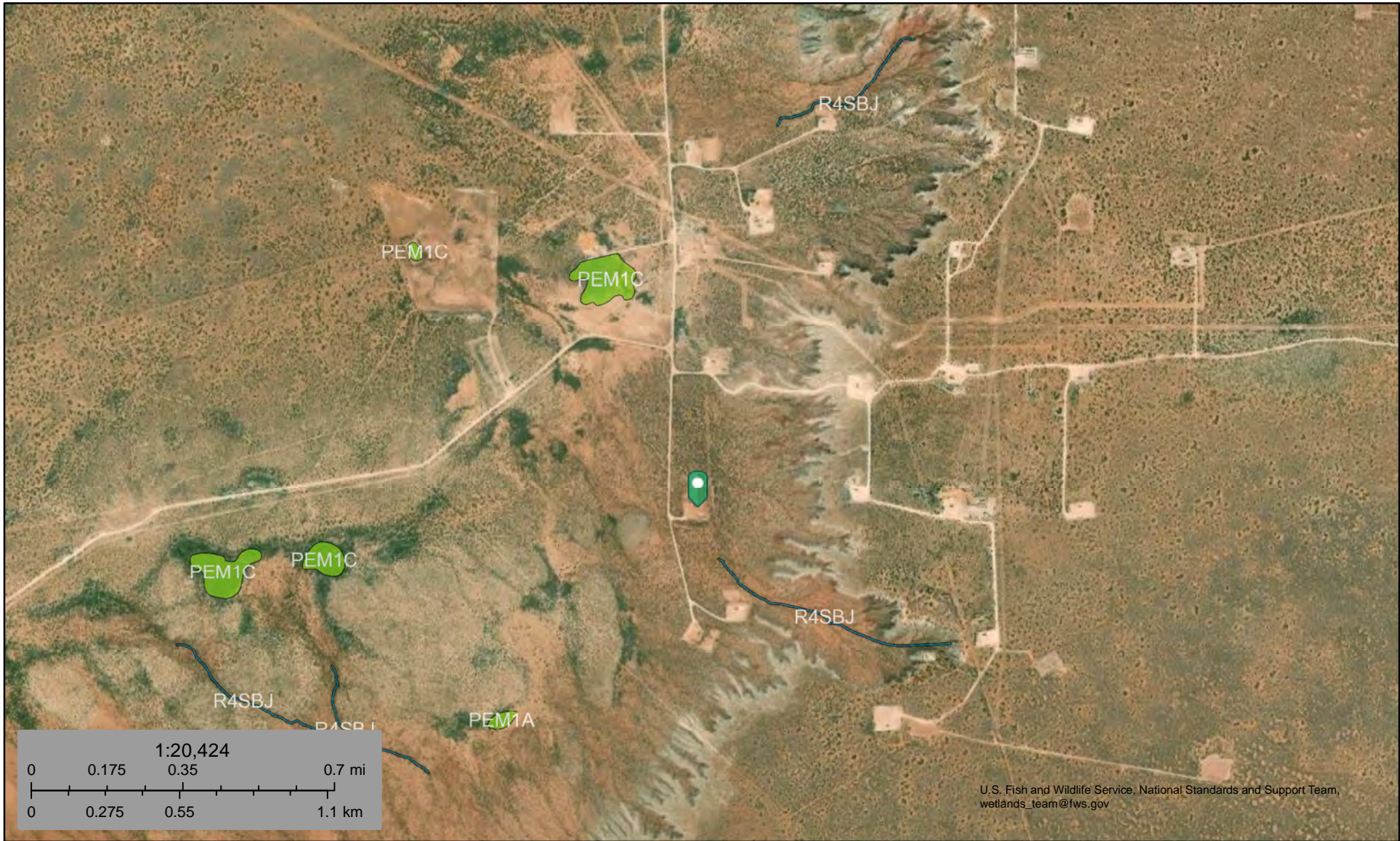
— OSE Streams



Maxar, Microsoft, NM OSE





National Wetlands



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

June 16, 2025

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Active Mines in New Mexico



6/16/2025, 2:23:44 PM

1:144,448

Registered Mines

× Aggregate, Stone etc.

×

Aggregate, Stone etc.

×

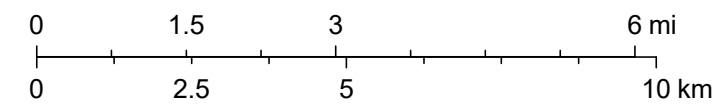
Aggregate, Stone etc.



Potash



Salt



Earthstar Geographics

National Flood Hazard Layer FIRMette



103°51'16"W 32°24'46"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/16/2025 at 7:27 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 10/14/2025 9:10:00 PM

1:6,000

103°50'39"W 32°24'15"N

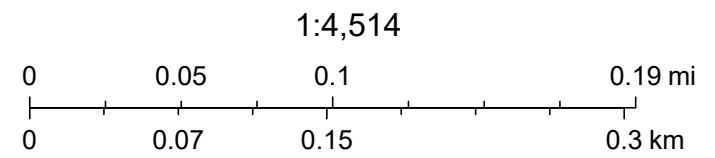
OCD Karst Potential



6/16/2025, 2:13:36 PM

Karst Occurrence Potential

- High
- Medium



BLM, OCD, New Mexico Tech, Maxar



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04528 POD1		CUB	ED	NW	SW	SW	12	22S	30E	608886.4	3585625.1		959			
C 02749		CUB	ED	NW	NW	NW	18	22S	31E	610556.0	3585146.0 *		2619	640		
C 02750		CUB	ED	NW	NW	NW	18	22S	31E	610556.0	3585146.0 *		2619	741		
C 02751		CUB	ED	NW	NW	NW	18	22S	31E	610556.0	3585146.0 *		2619	637		
C 02723		CUB	ED	NE	NE	SW	15	22S	30E	606282.0	3584363.0 *		2729	651		
C 03234 EXPLORE		CUB	ED	NW	NE	SW	35	21S	30E	607695.0	3589207.0 *		2950	410		
C 03003		CUB	ED	SW	NW	SW	31	21S	31E	610511.0	3588970.0 *		3527	650		
C 02950 EXPL		CUB	ED	SE	NE	SE	23	22S	30E	608740.0	3582576.0 *		3762	845		
C 03002		CUB	ED	SE	NE	SE	06	22S	31E	611933.0	3587375.0 *		3880	668		
C 02637		CUB	ED	NW	SW	SW	24	22S	30E	608950.0	3582377.0 *		3993	759		
C 03015		CUB	ED	NW	SE	SW	22	22S	30E	606099.0	3582353.0 *		4473	1316	262	1054
C 04773 POD1		CUB	ED	SE	SE	SE	24	22S	30E	610415.0	3582262.6		4603	55		
C 02748		CUB	ED	NW	NE	SW	17	22S	31E	612576.0	3584364.0 *		4780	3856		
C 02683		CUB	ED	SW	NW	NW	20	22S	31E	612184.0	3583356.0 *		4950	840		

Average Depth to Water: **262 feet**

Minimum Depth: **262 feet**

Maximum Depth: **262 feet**

Record Count: 14

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 608204.74

Northing: 3586300.45

Radius: 5000

* 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.

212C-MD-02413	TETRA TECH	LOG OF BORING James E 001 DTW	Page 2 of 2
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Project Name: James E #001 Tubing Line Release

Borehole Location: GPS Coordinates: 32.408042°, -103.849478° Surface Elevation (ft): 3209

Borehole Number: James E 001 DTW Borehole Diameter (in.): 8 Date Started: 2/28/2023 Date Finished: 2/28/2023

DEPTH (ft)	OPERATION TYPES	SAMPLE	STANDARD PENETRATION TEST	PID (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	WELL DIAGRAM
												While Drilling	24 Hours After Completion of Drilling		
			SPT									WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft 24 Hours After Completion of Drilling <u>∇</u> DRY ft Remarks:			
60 65 70 75 80 85 90 95 100 105												62			
												-SW- SAND: Brown to reddish brown, loose, fine to very fine-grained, dry.			
														105	10' Slotted PVC Pipe
Bottom of borehole at 105.0 feet.															

Sampler Types: <input type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample	<input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input type="checkbox"/> California <input type="checkbox"/> Sonic	Operation Types: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Hollow Stem Auger	<input type="checkbox"/> Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> HSA	Notes: Surface elevation is an approximate value obtained from Google Earth data.
---	--	---	---	--

Logger: Colton Bickerstaff Drilling Equipment: Air Rotary Driller: Scarborough Drilling

APPENDIX H

BLM Seed Mixture Details

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

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

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 481213

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2007952227
Incident Name	NRM2007952227 JAMES # #001 @ 30-015-20996
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-20996] JAMES E #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	JAMES # #001
Date Release Discovered	03/16/2020
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Valve Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 7 BBL Recovered: 0 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 481213

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 07/02/2025
--	--

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QUESTIONS, Page 3

Action 481213

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	12800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3170
GRO+DRO (EPA SW-846 Method 8015M)	2490
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/02/2025
On what date will (or did) the final sampling or liner inspection occur	10/12/2025
On what date will (or was) the remediation complete(d)	10/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	7400
What is the estimated volume (in cubic yards) that will be reclaimed	880
What is the estimated surface area (in square feet) that will be remediated	7400
What is the estimated volume (in cubic yards) that will be remediated	880

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 481213

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 07/02/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 481213

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 481213

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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

CONDITIONS

Action 481213

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 481213
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Site Characterization and Workplan is approved.	10/14/2025