

Incident ID	NRM2004458711
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: Jenni FortunatoTitle: Program Manager, RemediationSignature: Date: 2/15/22email: jenni.fortunato@cop.comTelephone: 8324862477**OCD Only**Received by: Chad HensleyDate: 03/21/2022

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

Signature: Date: 03/21/2022



February 17, 2022

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

**Re: Release Characterization and Deferral Request  
ConocoPhillips Company  
Elvis Tank Battery Release  
Unit Letter F, Section 20, Township 17 South, Range 32 East  
Lea County, New Mexico  
Incident ID: NRM2004458711**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to evaluate a release that occurred from a tank at the Elvis Central Tank Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter F, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release area is located at coordinates 32.822175°, -103.790369°, as shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on January 29, 2020. The release occurred as the result of a leak from a horizontal tank near the eastern extent of the lease pad and encompassed an estimated 1,277 square feet of lease pad. Approximately 3.7 barrels (bbls) of produced water and 2.1 bbls of crude oil were reported released, of which 0.5 bbls of fluid were recovered. The New Mexico Oil Conservation District (NMOCD) received the Form C-141 for the release on February 12, 2020. The NMOCD incident ID for this release is NRM2004458711.

## SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. The search radius was expanded and based on available data from three (3) water wells within 2,500 meters (approximately 1.55 miles) of the Site, the average depth to groundwater is 85 feet below ground surface (bgs).

As the available water level information is from wells farther than ½ mile away from the site, COP elected to drill a boring to verify depth to groundwater. On May 13, 2021, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (BG-1) to 55 feet bgs along the edge of the Elvis lease pad. The borehole was temporarily set, screened using 2-inch PVC well materials: 35 feet of blank casing and 20 feet of .010" slotted screen. The borehole was left for 72 hours and checked for the presence

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of groundwater. No water was present in the well after 72 h, and the borehole was dry. The well screen and casing were removed, and the borehole was plugged with 3/8" bentonite chips on May 17, 2021. The borehole location is indicated on Figure 3. The Site characterization data and boring log, are included in Appendix B.

## REGULATORY FRAMEWORK

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

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

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 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 Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

## SITE ASSESSMENT ACTIVITIES AND RESULTS

On May 18, 2021, Tetra Tech personnel were onsite to conduct a soil assessment and document the impacted area. A total of six (6) soil borings (BHE-1 through BHE-6) were installed using a hand auger to define the extents of the release and to assess the extent of impacted soil. BHE-1 was installed within the release footprint interior, near production piping, to a depth of 11.5 feet bgs to assess the vertical extent of impacted soil. BHE-2 through BHE-6 were installed to a depth of 1.5 feet bgs to define the lateral extent of impacted soil. The Elvis Battery (East) release extent is shown on Figure 3. Photographic documentation from the site assessment is included in Appendix C.

A total of twenty-two (22) soil samples were collected from the six (6) boring locations within and surrounding the release extent. These soil samples were sent to Pace Analytical (Pace) in Mount Juliet, Tennessee to be analyzed for TPH by EPA method 8015 modified, BTEX by EPA method 8260B, and chlorides by EPA method 300.0. Copies of analytical reports and chain-of-custody documentation are included in Appendix D. Soil boring logs, included as Appendix E, present soil descriptions, sample depths, and field screening data from the 2021 assessment activities.

Results from the May 2021 soil sampling event are summarized in Table 1. The boring locations are provided in Figure 3. . Analytical results for on-pad boring location BHE-1 exceeded the Site RRALs for TPH of 2,500 mg/kg in the 1-foot depth interval. Analytical results associated with the on-pad BHE-4 and BHE-6 locations exceeded the Site reclamation requirement for TPH of 100 mg/kg in the 1.5-foot sample depth interval. All other analytical results were below Site RRALs. Vertical delineation was achieved during this assessment.

Release Characterization and Deferral Request  
February 17, 2022

ConocoPhillips

## ADDITIONAL SITE ASSESSMENT ACTIVITIES AND RESULTS

To achieve horizontal delineation of the release extent, Tetra Tech personnel conducted additional soil sampling on February 2, 2022. A total of two (2) soil borings (AHE-7 and AHE-8) were installed around the perimeter of the pad to the southwest and east of the release footprint, respectively, using a hand auger. These hand auger soil borings were drilled to a depth of 2 feet bgs to complete horizontal delineation of the release extent.

A total of four (4) soil samples were collected from the two (2) perimeter boring locations. These soil samples were sent to Cardinal Labs (Cardinal) in Hobbs, New Mexico to be analyzed for TPH by EPA method 8015 modified, BTEX by EPA method 8260B, and chlorides by EPA method 300.0. Copies of analytical reports and chain-of-custody documentation are included in Appendix D.

Results from the February 2022 soil sampling event are summarized in Table 2. The boring locations are provided in Figure 3. The analytical results associated with the additional assessment borings (BHE-7 and BHE-8) were below both site RRALs and reclamation requirements for chloride, TPH and BTEX. Following the February 2022 additional site assessment, the NRM2004458711 release is considered vertically and horizontally delineated.

## CONCLUSION

Based on the results of the site assessment, ConocoPhillips respectfully requests that NMOCD will consider delaying further remediation activities at the Site until the end of life of the battery. At the time of abandonment, retrofit, or inactivity, remediation will be completed in addition to reclamation. The current release footprint is fully delineated. The contamination is located in areas immediately under and around production equipment and does not cause an imminent risk to human health, the environment, or groundwater.

Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the Site is no longer being used for oil and gas operations. The completed C-141 forms are enclosed in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call me at (512) 338-2861.

Sincerely,  
**Tetra Tech, Inc.**



Christian M. Llull, P.G.  
Program Manager

cc:  
Ms. Jenni Fortunato, RMR – ConocoPhillips  
Mr. Rahul Kaushik, GPBU - ConocoPhillips



Release Characterization and Deferral Request  
February 17, 2022

ConocoPhillips

## LIST OF ATTACHMENTS

### Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment

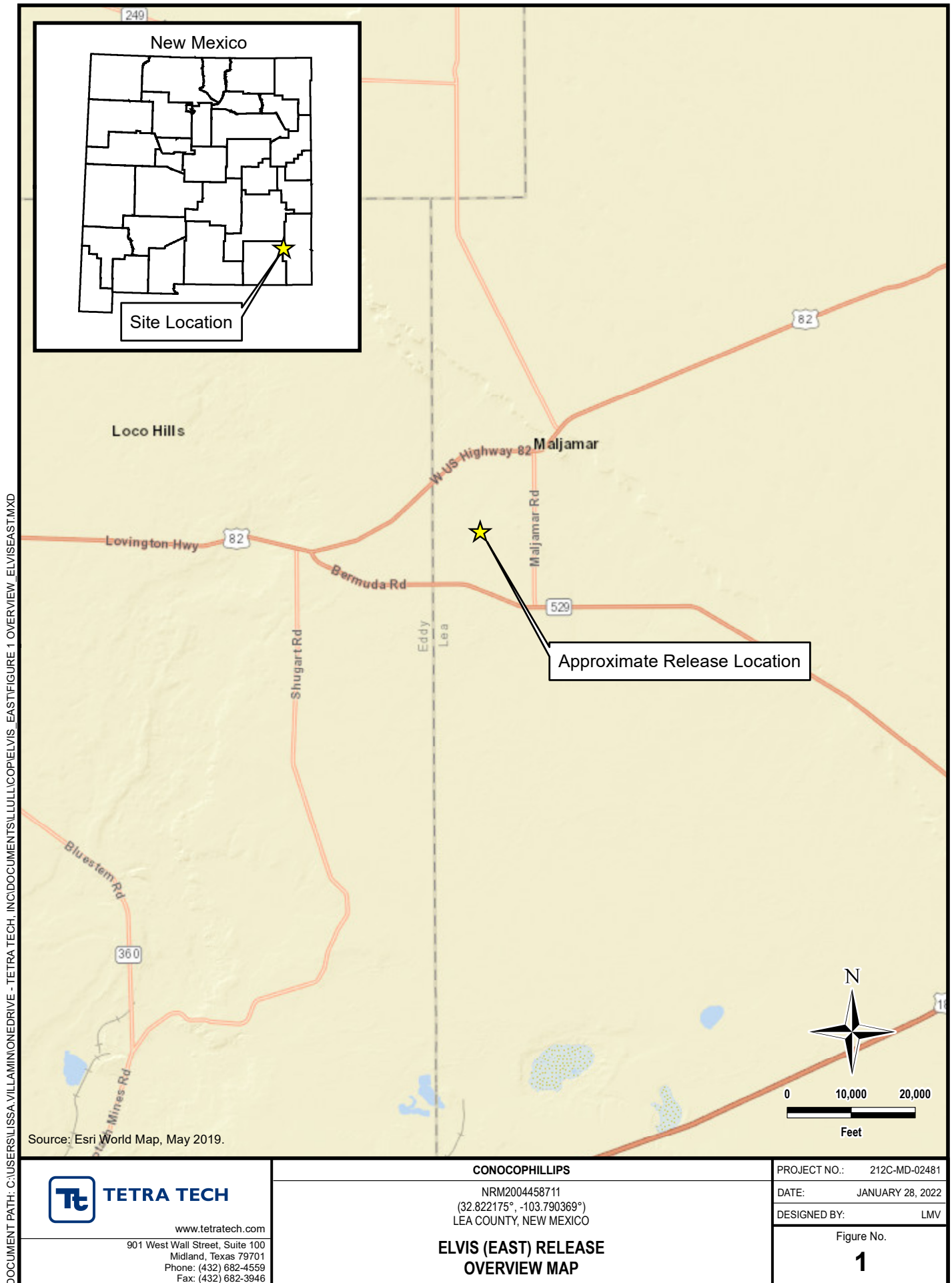
### Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

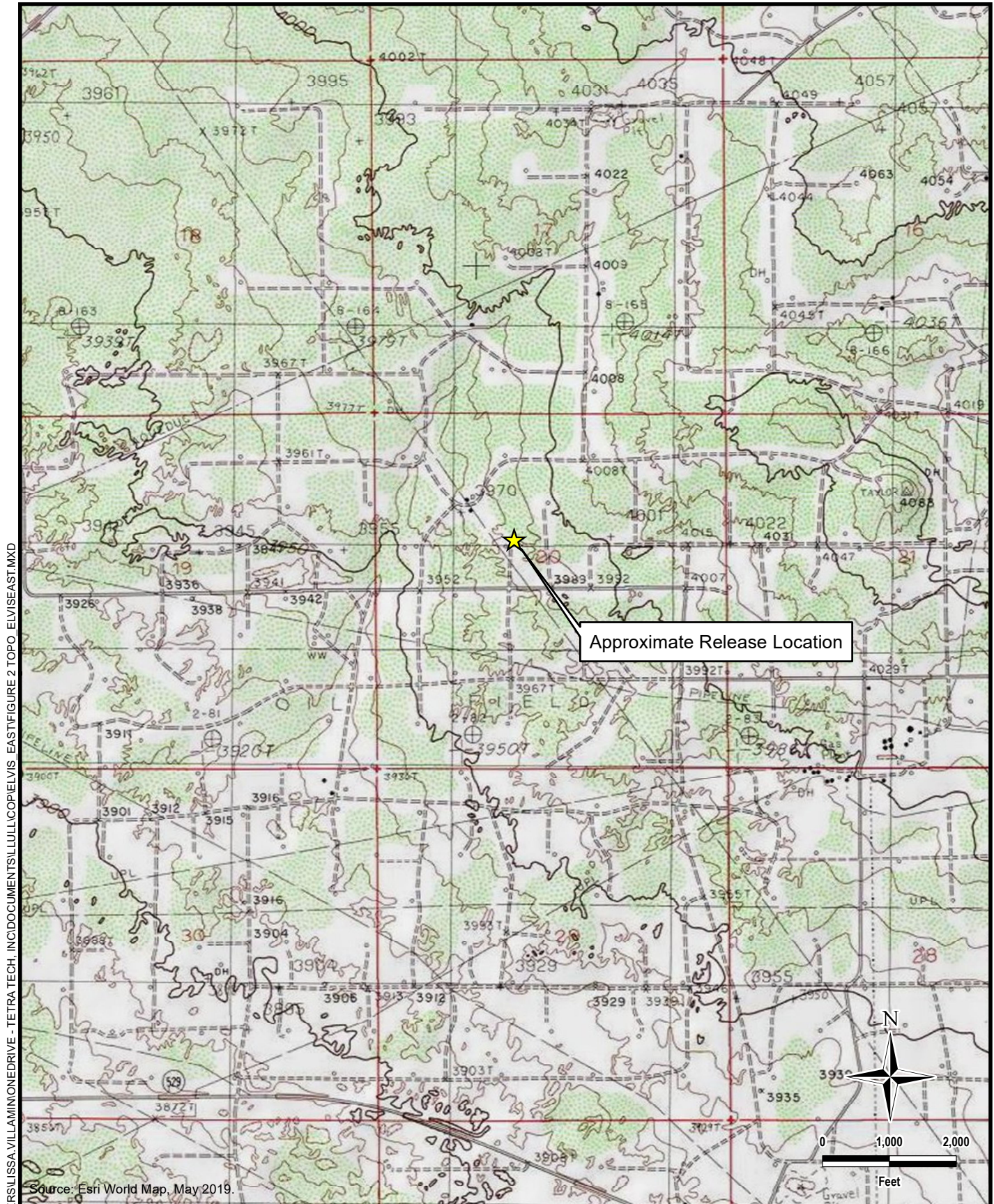
### Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Photographic Documentation
- Appendix D – Laboratory Analytical Data
- Appendix E – Soil Boring Logs

## **FIGURES**







**TETRA TECH**

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**CONOCOPHILLIPS**

NRM2004458711  
(32.822175°, -103.790369°)  
LEA COUNTY, NEW MEXICO

**ELVIS (EAST) RELEASE  
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02481

DATE: JANUARY 28, 2022

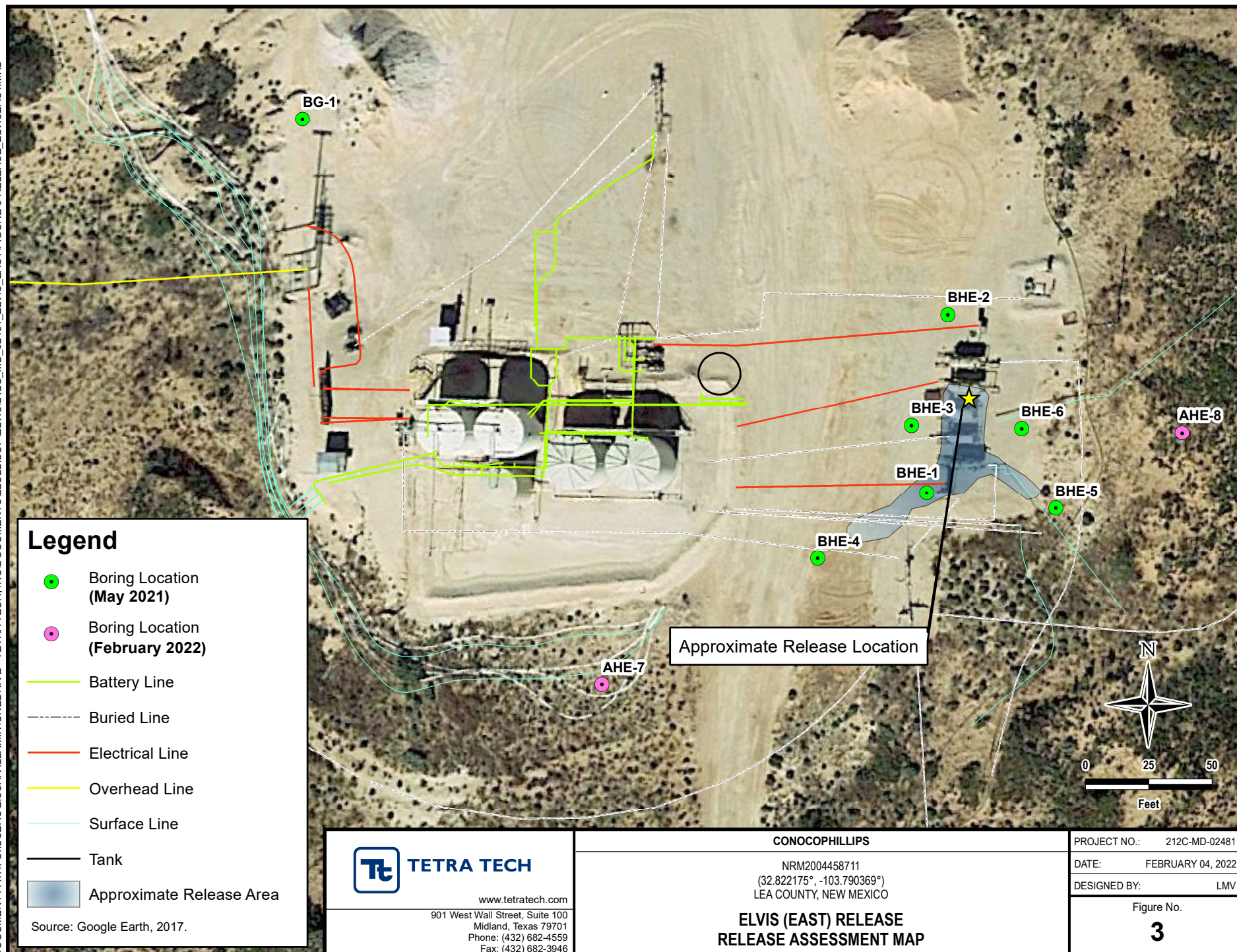
DESIGNED BY: LMV

Figure No.

**2**



DOCUMENT PATH: C:\USERS\ISSA.VILLAMINON\DRIVE - TETRA TECH\INC\DOCUMENTS\LUULLICOPELVIS212C\_MD\_02481\_ELVIS\_EAST\FIGURE 3 RELEASE\_ELVISEAST.MXD



## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT - nRM2004458711  
CONOCOPHILLIPS  
ELVIS (EAST) 2020 RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride <sup>1</sup>	BTEX <sup>2</sup>										TPH <sup>3</sup>					
			Chloride	PID		Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO <sup>4</sup>		DRO		ORO		Total TPH (GRO+DRO+ORO)
			mg/kg	Q		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BHE-1	5/18/2021	0-1	784	58.8	<b>690</b>		< 0.00124		< 0.00619		< 0.00310		< 0.00805	-	< 0.112		3260		2830		<b>6090</b>
		1-1.5	121	0.3	65.5		< 0.00104		< 0.00520		< 0.00260		< 0.00676	-	< 0.102		275		561		836
		2-2.5	157	0.07	50.8		< 0.00103		< 0.00517		< 0.00259		< 0.00672	-	< 0.102		13.3		25.0		38.3
		3-3.5	292	0.03	167		< 0.00120		< 0.00602		< 0.00301		< 0.00783	-	< 0.110		12.0		29.1		41.1
		4-4.5	645	0.02	468		< 0.00152		< 0.00760		< 0.00380		< 0.00989	-	< 0.126		6.00		9.55		15.6
		5-5.5	627	0.01	405		< 0.00136		< 0.00680		< 0.00340		< 0.00884	-	< 0.118		3.81	J	4.20	J	8.01
		6-6.5	528	0.01	399		< 0.00139		< 0.00694		< 0.00347		< 0.00903	-	< 0.119		3.21	J	5.31		8.52
		7-7.5	657	0.01	431		< 0.00122		< 0.00610		< 0.00305		< 0.00792	-	< 0.111		3.85	J	10.7		14.6
		8-8.5	863	0.01	637		< 0.00127		< 0.00633		< 0.00317		< 0.00823	-	< 0.113		3.07	J	5.04		8.11
		9-9.5	974	0.01	923		< 0.00133		< 0.00667		< 0.00333		< 0.00867	-	< 0.117		3.02	J	5.95		8.97
BHE-2	5/18/2021	10-10.5	326	0.01	65.0	P1	< 0.00135		< 0.00675		< 0.00338		< 0.00878	-	< 0.117		< 4.70		0.944	B J	0.944
		11-11.5	281	0.01	99.8		< 0.00135		< 0.00675		< 0.00337		< 0.00877	-	< 0.117		< 4.70		2.33	B J	2.33
BHE-3	5/18/2021	0-1	106	0.02	15.6	J	< 0.00106		< 0.00528		< 0.00264		< 0.00687	-	< 0.103		10.3		27.5		37.8
		1-1.5	110	0.04	19.7	J	< 0.00105		< 0.00524		< 0.00262		< 0.00682	-	< 0.102		13.2		43.4		56.6
BHE-4	5/18/2021	0-1	87.5	0.1	< 20.4		< 0.00104		< 0.00522		< 0.00261		< 0.00679	-	< 0.102		14.0		49.0		63.0
		1-1.5	91.3	0.06	< 20.4		< 0.00104		< 0.00520		< 0.00260		< 0.00676	-	< 0.102		15.8		45.9		61.7
BHE-5	5/18/2021	0-1	53.6	0.1	< 20.3		< 0.00103		< 0.00516		< 0.00258		< 0.00671	-	< 0.102		200		312		512
		1-1.5	67.5	0.1	< 20.3		< 0.00103		< 0.00516		< 0.00258		< 0.00671	-	< 0.102		193		243		436
BHE-6	5/18/2021	0-1	116	0.04	29.4		< 0.00107		< 0.00533		< 0.00267		< 0.00693	-	< 0.103		8.61		27.1		35.7
		1-1.5	112	0.05	30.3		< 0.00106		< 0.00532		< 0.00266		< 0.00691	-	< 0.103		8.24		25.1		33.3
BHE-7	5/18/2021	0-1	68.5	0.08	< 24.1		< 0.00141		< 0.00707		< 0.00353		< 0.00919	-	< 0.121		3.17	J	5.29		8.46
		1-1.5	54.3	0.1	< 20.3		< 0.00130		< 0.00514		< 0.00257		< 0.00668	-	< 0.101		212		308		520

## 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 Site RRALs.**

## 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.  
P1 RPD value not applicable for sample concentrations less than 5 times the reporting limit.



TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT - NRM2004458711  
CONOCOPHILLIPS  
ELVIS TANK BATTERY (EAST) RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	(GRO+DRO+EXT DRO)
AHE-7	2/1/2022	0-1	25.8	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	69.5	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AHE-8	2/1/2022	0-1	17.5	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	22.5	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

## NOTES:

ft. Feet

*Bold and italicized values indicate exceedance of proposed Site RRALS.*

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

## **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	NRM2004458711
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	ConocoPhillips Company	OGRID	217817
Contact Name	Gustavo Fejervary	Contact Telephone	432/210-7037
Contact email	g.fejervary@cop.com	Incident # (assigned by OCD)	
Contact mailing address	5735 SW 7000 Andrews, TX 79714		

### Location of Release Source

Latitude 32.8224716 Longitude -103.7907944  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ELVIS CTB	Site Type	Central Tank Battery
Date Release Discovered	01/29/2020	API# (if applicable)	

Unit Letter	Section	Township	Range	County
F	20	17S	32E	Lea

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2.1	Volume Recovered (bbls) 0.25
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3.7	Volume Recovered (bbls) 0.25
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release After being shut in overnight due to third party pipeline issues, MSO started the well back up and verified operation of the pump and production equipment. After verifying stability of equipment, MSO left well site and later received a call from third party operator stating they found a leak at the battery. MSO was sent to shut in well. Due to equipment and other obstacles on the site, measuring the spill and using calculator did not seem to be the best choice. Area supervisor and HSE calculated spill based off the fluid capacity of the vessel that leaked plus the production of the well in a one hour period. Total fluid spilled was 5.8 bbls (3.7 produced water, 2.1 light crude).

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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?  Due to equipment and other obstacles on the site, measuring the spill and using calculator did not seem to be the best choice. Area supervisor and HSE calculated spill based off the fluid capacity of the vessel that leaked plus the production of the well in a one hour period. Total fluid spilled was 5.8 bbls (3.7 produced water, 2.1 light crude).
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>Gustavo Fejervary</u>	Title: <u>Environmental Coordinator</u>
Signature: 	Date: <u>2/12/20</u>
email: <u>g.fejervary@cop.com</u>	Telephone: <u>432/210-7037</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>2/13/2020</u>

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

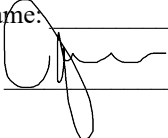
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ 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: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_




## **APPENDIX B**


### **Site Characterization Data**


# Elvis (East) 2020 Release


Karst Potential Map

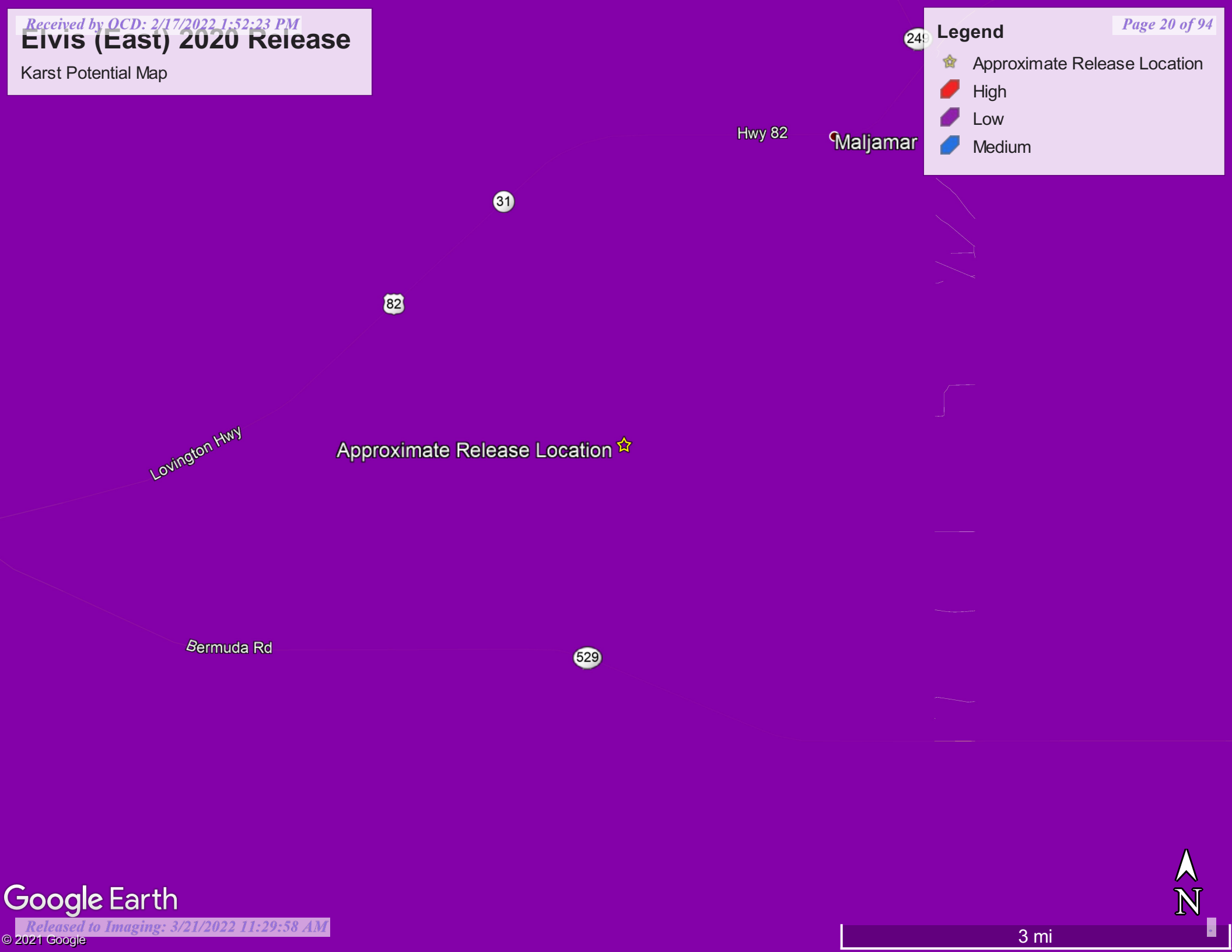
Legend

 Approximate Release Location

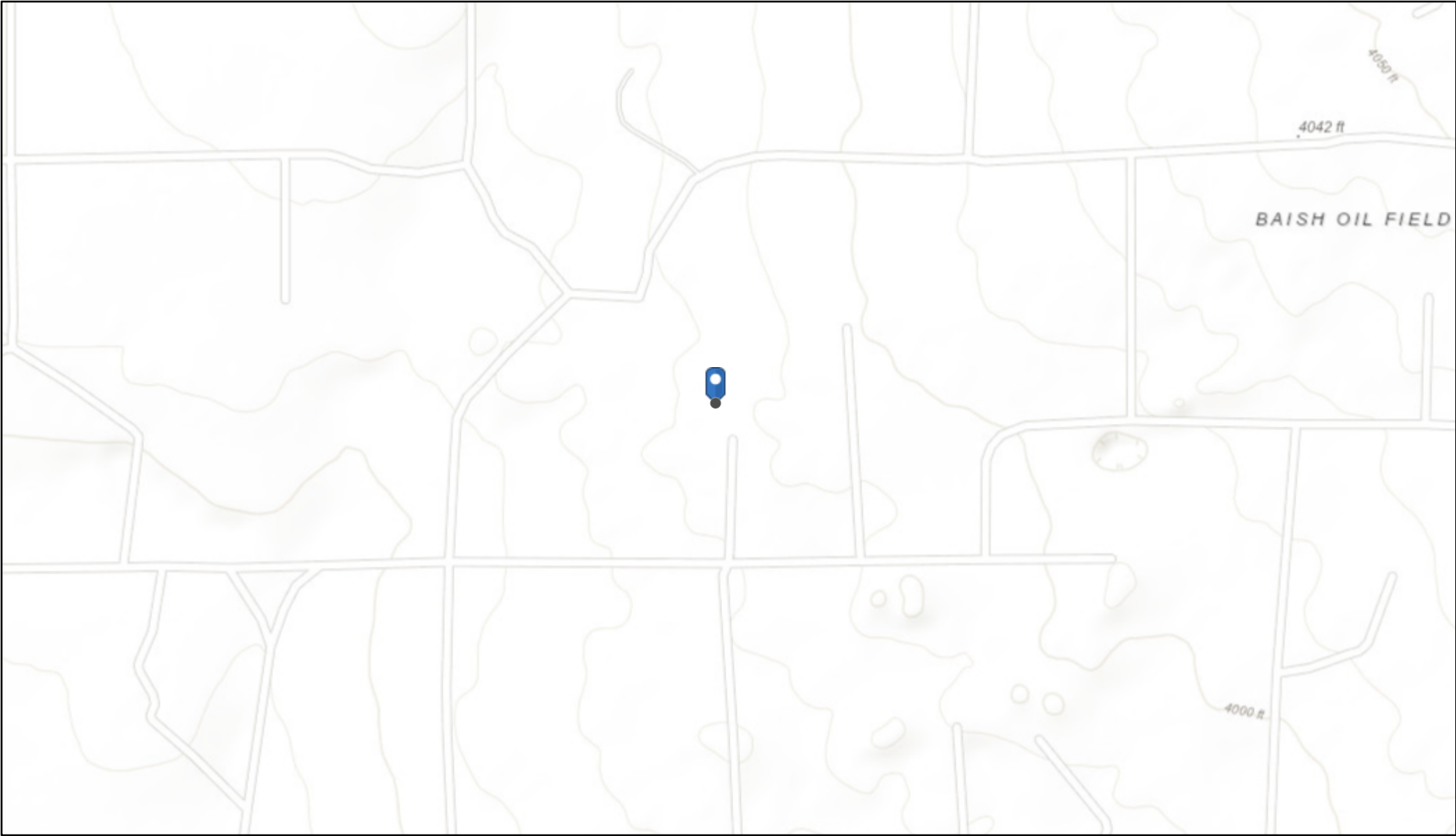
 High

 Low




 Medium

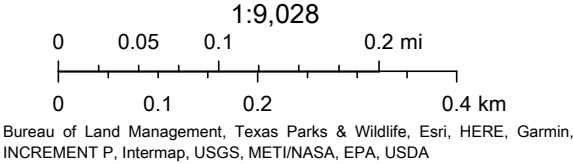


# NMOCD Waterbodies Map



6/4/2021, 10:54:46 AM

-  OSE Water-bodies
-  PLJV Probable Plays
-  OSE Streams





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 12042 POD1</a>	RA	LE		2	2	1	28	17S	32E	614891	3631181	1961	400		
<a href="#">RA 10175</a>	RA	LE			2	1	28	17S	32E	614814	3631005*	1998	158		
<a href="#">RA 12522 POD1</a>	RA	LE		3	3	4	21	17S	32E	614941	3631122	2034	100		
<a href="#">RA 12020 POD1</a>	RA	LE		2	2	1	28	17S	32E	614828	3630954	2040	120	81	39
<a href="#">RA 12522 POD2</a>	RA	LE		2	2	1	28	17S	32E	614949	3631098	2054	100		
<a href="#">RA 12522 POD3</a>	RA	LE		4	4	3	28	17S	32E	614980	3631093	2083	100		
<a href="#">RA 12521 POD1</a>	RA	LE		3	3	4	21	17S	32E	615127	3631271	2123	105	92	13
<a href="#">RA 12020 POD3</a>	RA	LE		2	1	2	28	17S	32E	615152	3631019	2268	112	83	29

Average Depth to Water: **85 feet**

Minimum Depth: **81 feet**

Maximum Depth: **92 feet**

Record Count: 8

UTMNA83 Radius Search (in meters):

Easting (X): 613228.29

Northing (Y): 3632221.45

Radius: 2500

\*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.

6/4/21 10:35 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BG-1</b>				Page 1 of 2	
Project Name: Elvis (East) Assessment									
Borehole Location: GPS: 32.822481°, -103.791223°					Surface Elevation: 3991 ft				
Borehole Number: BG-1				Borehole Diameter (in.): 8		Date Started: 5/18/2021		Date Finished: 5/18/2021	

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 <u>  </u> <u>  </u> ft    Upon Completion of Drilling <u>  </u> <u>  </u> ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5													<b>-SM-</b> SILTY SAND: Light reddish-brown, fine to medium grained, weakly cemented, trace calcareous gravel, dry, with no odor, with no staining, with caliche fragments.		
10															
15															
20															
25													<b>-CL-</b> SANDY LEAN CLAY: Reddish-brown, dry, weakly to moderately cemented, with no odor, with no staining.	13	
27													<b>-SC-</b> CLAYEY SAND: Reddish-brown, dry, fine to medium grained, weakly cemented, with no odor, with no staining.	18	
30													<b>-SP-</b> POORLY GRADED SAND: Reddish-brown, trace gravel, fine to medium grained, dry, moderately cemented, with no odor, with no staining.	27	

<b>Sampler Types:</b> <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	<b>Operation Types:</b> <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	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
---	---	--	--	--

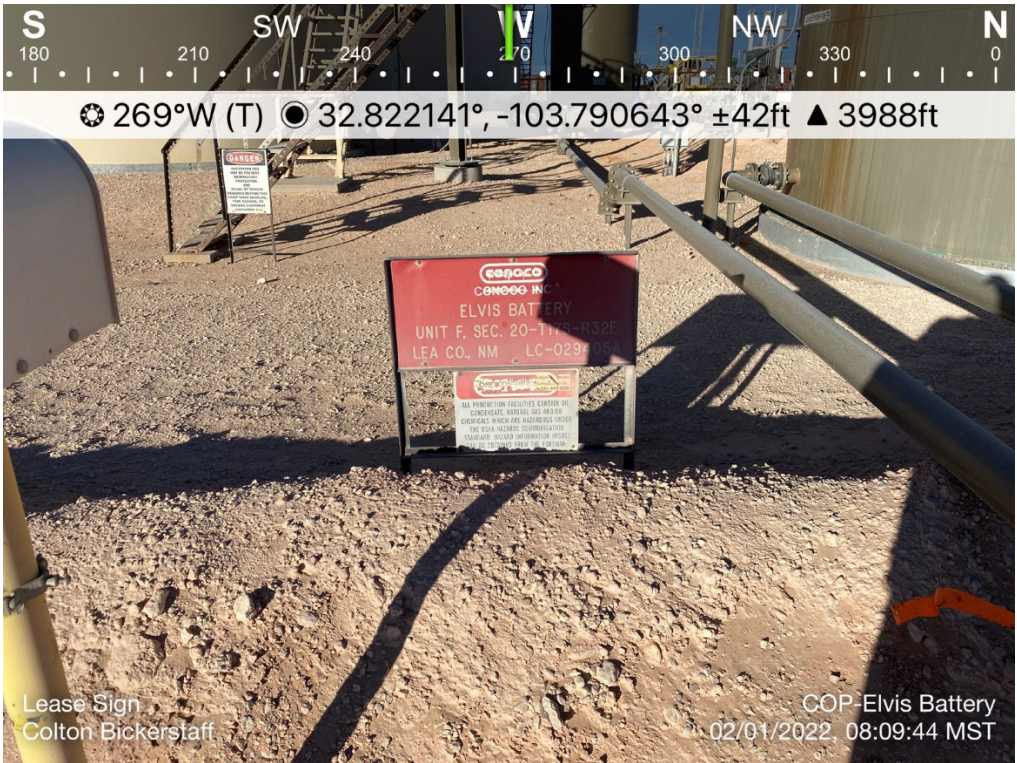
Logger: Devin Dominguez	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
-------------------------	--------------------------------	-------------------------------

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BG-1</b>				Page 2 of 2						
Project Name: Elvis (East) Assessment														
Borehole Location: GPS: 32.822481°, -103.791223°					Surface Elevation: 3991 ft									
Borehole Number: BG-1				Borehole Diameter (in.): 8		Date Started: 5/18/2021		Date Finished: 5/18/2021						
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	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> Dry ft    Upon Completion of Drilling <u>▽</u> Dry ft  Remarks:		
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
35											38	-- MUDSTONE: Greenish-gray, hard, dry, with no odor, with no staining, fissle.   -- SILTSTONE: Reddish-brown, dry, hard, with no odor, with no staining.		
40										43				
45														
50														
55											55			
Bottom of borehole at 55.0 feet.														
<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample		Acetate Liner Vane Shear California Test Pit		<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary		Hand Auger Air Rotary Direct Push Core Barrel		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.						
<b>Logger:</b> Devin Dominguez				<b>Drilling Equipment:</b> Air Rotary				<b>Driller:</b> Scarborough Drilling						

## **APPENDIX C**

### **Photographic Documentation**



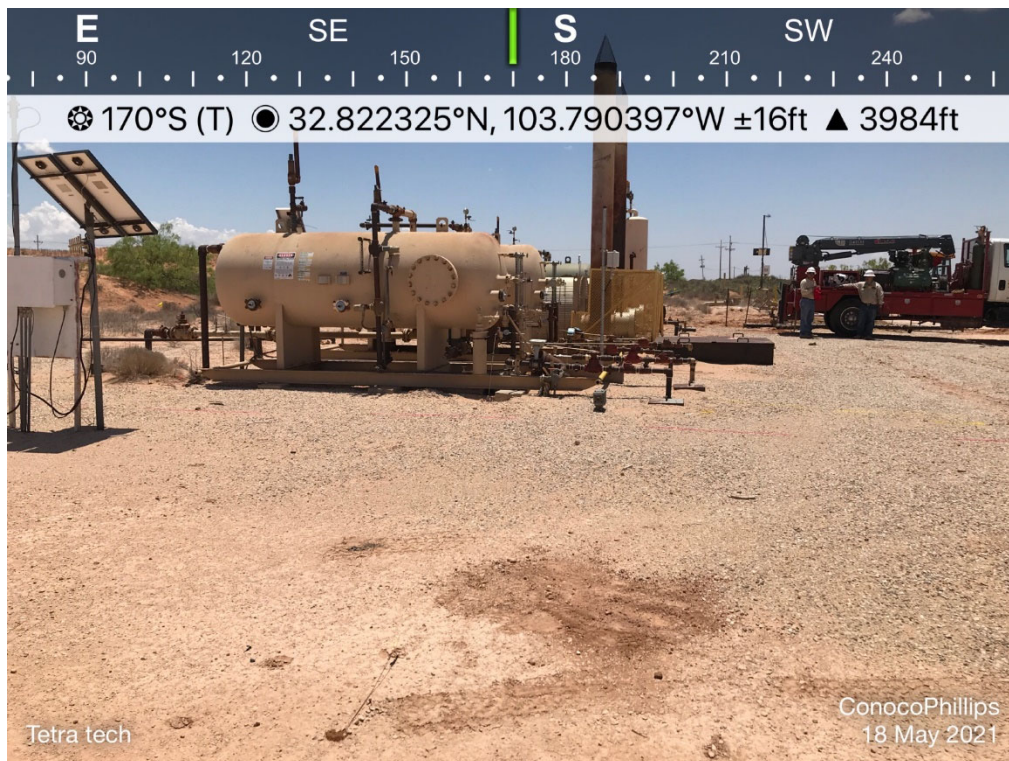


TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	Site Signage.	1
	SITE NAME	Elvis (East) Release	2/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View East of release area and production equipment.	2
	SITE NAME	Elvis (East) Release	5/18/2021





TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View South of production equipment.	3
	SITE NAME	Elvis (East) Release	5/18/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View East of release area and production equipment.	4
	SITE NAME	Elvis (East) Release	5/18/2021





TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View Northeast of release area and hand dig area.	5
	SITE NAME	Elvis (East) Release	5/18/2021

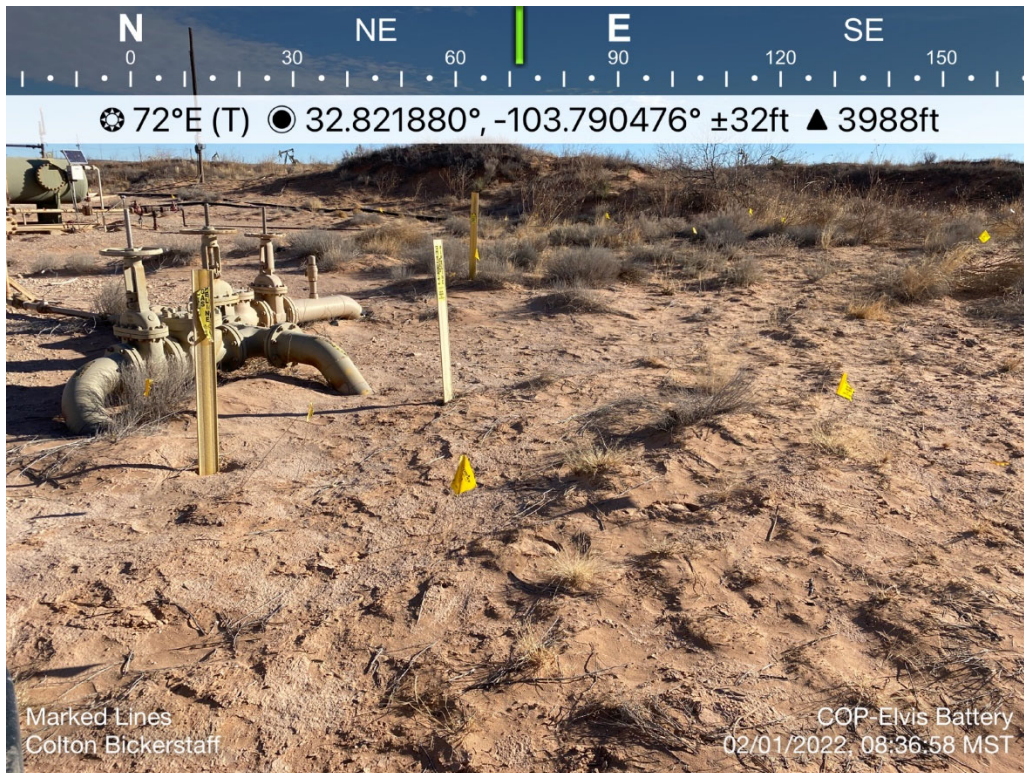


TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View Northwest of release area, hand dig area, and production equipment.	6
	SITE NAME	Elvis (East) Release	5/18/2021





TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View Southwest of release area, hand dig area, and production equipment.	7
	SITE NAME	Elvis (East) Release	5/18/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02481	DESCRIPTION	View East Northeast. Miscellaneous buried utilities.	8
	SITE NAME	Elvis (East) Release	5/18/2021

## **APPENDIX D**

### **Laboratory Analytical Data**





## ANALYTICAL REPORT

June 03, 2021

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1355900  
Samples Received: 05/20/2021  
Project Number: 212C-MD-02481  
Description: Elvis (East) Release

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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](http://www.pacenational.com)

<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>8</b>
<b>Sr: Sample Results</b>	<b>9</b>
BHE-1 (0-1) L1355900-01	9
BHE-1 (1-1.5) L1355900-02	10
BHE-1 (2-2.5) L1355900-03	11
BHE-1 (3-3.5) L1355900-04	12
BHE-1 (4-4.5) L1355900-05	13
BHE-1 (5-5.5) L1355900-06	14
BHE-1 (6-6.5) L1355900-07	15
BHE-1 (7-7.5) L1355900-08	16
BHE-1 (8-8.5) L1355900-09	17
BHE-1 (9-9.5) L1355900-10	18
BHE-1 (10-10.5) L1355900-11	19
BHE-1 (11-11.5) L1355900-12	20
BHE-2 (0-1) L1355900-13	21
BHE-2 (1-1.5) L1355900-14	22
BHE-3 (0-1) L1355900-15	23
BHE-3 (1-1.5) L1355900-16	24
BHE-4 (0-1) L1355900-17	25
BHE-4 (1-1.5) L1355900-18	26
BHE-5 (0-1) L1355900-19	27
BHE-5 (1-1.5) L1355900-20	28
BHE-6 (0-1) L1355900-21	29
BHE-6 (1-1.5) L1355900-22	30
<b>Qc: Quality Control Summary</b>	<b>31</b>
Total Solids by Method 2540 G-2011	31
Wet Chemistry by Method 300.0	34
Volatile Organic Compounds (GC) by Method 8015D/GRO	36
Volatile Organic Compounds (GC/MS) by Method 8260B	39
Semi-Volatile Organic Compounds (GC) by Method 8015	41
<b>Gl: Glossary of Terms</b>	<b>43</b>
<b>Al: Accreditations &amp; Locations</b>	<b>44</b>
<b>Sc: Sample Chain of Custody</b>	<b>45</b>

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



## BHE-1 (0-1) L1355900-01 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 06:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 03:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 15:06	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	20	05/27/21 20:13	05/28/21 18:14	CAG	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BHE-1 (1-1.5) L1355900-02 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 07:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 04:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 15:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	10	05/27/21 20:13	05/28/21 09:27	CAG	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BHE-1 (2-2.5) L1355900-03 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 07:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 04:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 15:44	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 08:33	CAG	Mt. Juliet, TN

<sup>9</sup> Sc

## BHE-1 (3-3.5) L1355900-04 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 07:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 04:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 16:03	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 08:19	CAG	Mt. Juliet, TN

## BHE-1 (4-4.5) L1355900-05 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 07:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 05:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 16:22	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 08:05	CAG	Mt. Juliet, TN

## BHE-1 (5-5.5) L1355900-06 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 05:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 16:41	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 06:03	CAG	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BHE-1 (6-6.5) L1355900-07 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1676985	1	05/26/21 10:46	05/26/21 10:53	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 05:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 17:00	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 06:17	CAG	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BHE-1 (7-7.5) L1355900-08 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:25	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 06:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 17:19	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 06:58	CAG	Mt. Juliet, TN

<sup>9</sup> Sc

## BHE-1 (8-8.5) L1355900-09 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 06:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 17:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 13:32	DMG	Mt. Juliet, TN

## BHE-1 (9-9.5) L1355900-10 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 07:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 17:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 07:25	CAG	Mt. Juliet, TN

## BHE-1 (10-10.5) L1355900-11 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 08:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1677457	1	05/25/21 16:37	05/26/21 07:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 18:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 07:38	CAG	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BHE-1 (11-11.5) L1355900-12 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 09:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678956	1	05/25/21 16:37	05/28/21 04:28	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1677778	1	05/25/21 16:37	05/26/21 18:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 07:52	CAG	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BHE-2 (0-1) L1355900-13 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 09:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678956	1	05/25/21 16:37	05/28/21 04:51	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 08:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 17:47	CAG	Mt. Juliet, TN

<sup>9</sup> Sc

## BHE-2 (1-1.5) L1355900-14 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 09:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678956	1	05/25/21 16:37	05/28/21 05:14	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 09:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 18:01	CAG	Mt. Juliet, TN

## BHE-3 (0-1) L1355900-15 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678956	1	05/25/21 16:37	05/28/21 05:37	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 09:34	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678635	1	05/27/21 20:13	05/28/21 08:46	CAG	Mt. Juliet, TN

## BHE-3 (1-1.5) L1355900-16 Solid

Collected by Devin Dominguez  
 Collected date/time 05/18/21 00:00  
 Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 20:08	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 09:53	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	1	05/27/21 20:18	05/29/21 01:02	CAG	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BHE-4 (0-1) L1355900-17 Solid

Collected by Devin Dominguez  
 Collected date/time 05/18/21 00:00  
 Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677022	1	05/26/21 12:58	05/26/21 13:14	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 20:31	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 10:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	20	05/27/21 20:18	05/30/21 10:58	CAG	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BHE-4 (1-1.5) L1355900-18 Solid

Collected by Devin Dominguez  
 Collected date/time 05/18/21 00:00  
 Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677024	1	05/25/21 19:32	05/25/21 19:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 20:55	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 10:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	10	05/27/21 20:18	05/29/21 01:15	CAG	Mt. Juliet, TN

<sup>9</sup> Sc

## BHE-5 (0-1) L1355900-19 Solid

Collected by Devin Dominguez  
 Collected date/time 05/18/21 00:00  
 Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677024	1	05/25/21 19:32	05/25/21 19:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:46	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 21:19	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 10:50	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	1	05/27/21 20:18	05/29/21 00:48	CAG	Mt. Juliet, TN

## BHE-5 (1-1.5) L1355900-20 Solid

Collected by Devin Dominguez  
 Collected date/time 05/18/21 00:00  
 Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677024	1	05/25/21 19:32	05/25/21 19:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680542	1	06/02/21 18:47	06/03/21 10:56	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 21:43	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 11:09	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	1	05/27/21 20:18	05/29/21 00:35	CAG	Mt. Juliet, TN

## BHE-6 (0-1) L1355900-21 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677024	1	05/25/21 19:32	05/25/21 19:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680538	1	06/02/21 18:49	06/03/21 05:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 22:07	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 11:28	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	1	05/27/21 20:18	05/28/21 20:58	CAG	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BHE-6 (1-1.5) L1355900-22 Solid

Collected by Devin Dominguez  
Collected date/time 05/18/21 00:00  
Received date/time 05/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677024	1	05/25/21 19:32	05/25/21 19:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1680538	1	06/02/21 18:49	06/03/21 05:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1678821	1	05/25/21 16:37	05/28/21 22:30	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1678003	1	05/25/21 16:37	05/27/21 11:47	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1678636	10	05/27/21 20:18	05/29/21 01:29	CAG	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> 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

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

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	05/26/2021 10:53	<a href="#">WG1676985</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	690		10.3	22.4	1	06/03/2021 06:31	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	05/26/2021 03:28	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		05/26/2021 03:28	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000578	0.00124	1	05/26/2021 15:06	<a href="#">WG1677778</a>
Toluene	U		0.00161	0.00619	1	05/26/2021 15:06	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000913	0.00310	1	05/26/2021 15:06	<a href="#">WG1677778</a>
Total Xylenes	U		0.00109	0.00805	1	05/26/2021 15:06	<a href="#">WG1677778</a>
(S) Toluene-d8	104			75.0-131		05/26/2021 15:06	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	100			67.0-138		05/26/2021 15:06	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	81.1			70.0-130		05/26/2021 15:06	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3260		36.0	89.5	20	05/28/2021 18:14	<a href="#">WG1678635</a>
C28-C40 Oil Range	2830		6.13	89.5	20	05/28/2021 18:14	<a href="#">WG1678635</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>		18.0-148		05/28/2021 18:14	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	05/26/2021 10:53	<a href="#">WG1676985</a>

## 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	65.5		9.39	20.4	1	06/03/2021 07:09	<a href="#">WG1680542</a>

## 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		0.0221	0.102	1	05/26/2021 04:01	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/26/2021 04:01	<a href="#">WG1677457</a>

## 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		0.000486	0.00104	1	05/26/2021 15:25	<a href="#">WG1677778</a>
Toluene	U		0.00135	0.00520	1	05/26/2021 15:25	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000767	0.00260	1	05/26/2021 15:25	<a href="#">WG1677778</a>
Total Xylenes	U		0.000916	0.00676	1	05/26/2021 15:25	<a href="#">WG1677778</a>
(S) Toluene-d8	106			75.0-131		05/26/2021 15:25	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	99.1			67.0-138		05/26/2021 15:25	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	83.9			70.0-130		05/26/2021 15:25	<a href="#">WG1677778</a>

## 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	275		16.4	40.8	10	05/28/2021 09:27	<a href="#">WG1678635</a>
C28-C40 Oil Range	561		2.80	40.8	10	05/28/2021 09:27	<a href="#">WG1678635</a>
(S) o-Terphenyl	41.1			18.0-148		05/28/2021 09:27	<a href="#">WG1678635</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.3		1	05/26/2021 10:53	<a href="#">WG1676985</a>

<sup>1</sup> Cp<sup>2</sup> 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	50.8		9.36	20.3	1	06/03/2021 07:18	<a href="#">WG1680542</a>

<sup>3</sup> Ss<sup>4</sup> 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		0.0221	0.102	1	05/26/2021 04:27	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/26/2021 04:27	<a href="#">WG1677457</a>

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> 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		0.000483	0.00103	1	05/26/2021 15:44	<a href="#">WG1677778</a>
Toluene	U		0.00134	0.00517	1	05/26/2021 15:44	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000762	0.00259	1	05/26/2021 15:44	<a href="#">WG1677778</a>
Total Xylenes	U		0.000910	0.00672	1	05/26/2021 15:44	<a href="#">WG1677778</a>
(S) Toluene-d8	103			75.0-131		05/26/2021 15:44	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	101			67.0-138		05/26/2021 15:44	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	81.6			70.0-130		05/26/2021 15:44	<a href="#">WG1677778</a>

<sup>8</sup> Al<sup>9</sup> 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	13.3		1.64	4.07	1	05/28/2021 08:33	<a href="#">WG1678635</a>
C28-C40 Oil Range	25.0		0.279	4.07	1	05/28/2021 08:33	<a href="#">WG1678635</a>
(S) o-Terphenyl	78.1			18.0-148		05/28/2021 08:33	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	05/26/2021 10:53	<a href="#">WG1676985</a>

## 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	167		10.1	22.0	1	06/03/2021 07:28	<a href="#">WG1680542</a>

## 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	05/26/2021 04:50	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/26/2021 04:50	<a href="#">WG1677457</a>

## 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		0.000562	0.00120	1	05/26/2021 16:03	<a href="#">WG1677778</a>
Toluene	U		0.00157	0.00602	1	05/26/2021 16:03	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000887	0.00301	1	05/26/2021 16:03	<a href="#">WG1677778</a>
Total Xylenes	U		0.00106	0.00783	1	05/26/2021 16:03	<a href="#">WG1677778</a>
(S) Toluene-d8	105			75.0-131		05/26/2021 16:03	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	101			67.0-138		05/26/2021 16:03	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	74.6			70.0-130		05/26/2021 16:03	<a href="#">WG1677778</a>

## 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	12.0		1.77	4.41	1	05/28/2021 08:19	<a href="#">WG1678635</a>
C28-C40 Oil Range	29.1		0.302	4.41	1	05/28/2021 08:19	<a href="#">WG1678635</a>
(S) o-Terphenyl	76.1			18.0-148		05/28/2021 08:19	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.4		1	05/26/2021 10:53	<a href="#">WG1676985</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	468		11.6	25.2	1	06/03/2021 07:37	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0273	0.126	1	05/26/2021 05:12	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/26/2021 05:12	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000710	0.00152	1	05/26/2021 16:22	<a href="#">WG1677778</a>
Toluene	U		0.00198	0.00760	1	05/26/2021 16:22	<a href="#">WG1677778</a>
Ethylbenzene	U		0.00112	0.00380	1	05/26/2021 16:22	<a href="#">WG1677778</a>
Total Xylenes	U		0.00134	0.00989	1	05/26/2021 16:22	<a href="#">WG1677778</a>
(S) Toluene-d8	100			75.0-131		05/26/2021 16:22	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	102			67.0-138		05/26/2021 16:22	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	73.8			70.0-130		05/26/2021 16:22	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.00		2.03	5.04	1	05/28/2021 08:05	<a href="#">WG1678635</a>
C28-C40 Oil Range	9.55		0.345	5.04	1	05/28/2021 08:05	<a href="#">WG1678635</a>
(S) o-Terphenyl	67.8			18.0-148		05/28/2021 08:05	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.8		1	05/26/2021 10:53	<a href="#">WG1676985</a>

## 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	405		10.9	23.6	1	06/03/2021 08:06	<a href="#">WG1680542</a>

## 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		0.0256	0.118	1	05/26/2021 05:37	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/26/2021 05:37	<a href="#">WG1677457</a>

## 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		0.000635	0.00136	1	05/26/2021 16:41	<a href="#">WG1677778</a>
Toluene	U		0.00177	0.00680	1	05/26/2021 16:41	<a href="#">WG1677778</a>
Ethylbenzene	U		0.00100	0.00340	1	05/26/2021 16:41	<a href="#">WG1677778</a>
Total Xylenes	U		0.00120	0.00884	1	05/26/2021 16:41	<a href="#">WG1677778</a>
(S) Toluene-d8	95.9			75.0-131		05/26/2021 16:41	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	100			67.0-138		05/26/2021 16:41	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	71.2			70.0-130		05/26/2021 16:41	<a href="#">WG1677778</a>

## 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	1.90	4.72	1	05/28/2021 06:03	<a href="#">WG1678635</a>
C28-C40 Oil Range	4.20	J	0.323	4.72	1	05/28/2021 06:03	<a href="#">WG1678635</a>
(S) o-Terphenyl	82.1			18.0-148		05/28/2021 06:03	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.7		1	05/26/2021 10:53	<a href="#">WG1676985</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	399		11.0	23.9	1	06/03/2021 08:15	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0259	0.119	1	05/26/2021 05:59	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/26/2021 05:59	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000648	0.00139	1	05/26/2021 17:00	<a href="#">WG1677778</a>
Toluene	U		0.00181	0.00694	1	05/26/2021 17:00	<a href="#">WG1677778</a>
Ethylbenzene	U		0.00102	0.00347	1	05/26/2021 17:00	<a href="#">WG1677778</a>
Total Xylenes	U		0.00122	0.00903	1	05/26/2021 17:00	<a href="#">WG1677778</a>
(S) Toluene-d8	107			75.0-131		05/26/2021 17:00	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	102			67.0-138		05/26/2021 17:00	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	82.0			70.0-130		05/26/2021 17:00	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.21	J	1.92	4.78	1	05/28/2021 06:17	<a href="#">WG1678635</a>
C28-C40 Oil Range	5.31		0.327	4.78	1	05/28/2021 06:17	<a href="#">WG1678635</a>
(S) o-Terphenyl	76.7			18.0-148		05/28/2021 06:17	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.1		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	431		10.2	22.2	1	06/03/2021 08:25	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1	05/26/2021 06:21	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	117			77.0-120		05/26/2021 06:21	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000569	0.00122	1	05/26/2021 17:19	<a href="#">WG1677778</a>
Toluene	U		0.00158	0.00610	1	05/26/2021 17:19	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000898	0.00305	1	05/26/2021 17:19	<a href="#">WG1677778</a>
Total Xylenes	U		0.00107	0.00792	1	05/26/2021 17:19	<a href="#">WG1677778</a>
(S) Toluene-d8	101			75.0-131		05/26/2021 17:19	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	102			67.0-138		05/26/2021 17:19	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	76.3			70.0-130		05/26/2021 17:19	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.85	J	1.79	4.44	1	05/28/2021 06:58	<a href="#">WG1678635</a>
C28-C40 Oil Range	10.7		0.304	4.44	1	05/28/2021 06:58	<a href="#">WG1678635</a>
(S) o-Terphenyl	77.6			18.0-148		05/28/2021 06:58	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.2		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	637		10.4	22.7	1	06/03/2021 08:34	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0246	0.113	1	05/26/2021 06:43	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	118			77.0-120		05/26/2021 06:43	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000591	0.00127	1	05/26/2021 17:38	<a href="#">WG1677778</a>
Toluene	U		0.00165	0.00633	1	05/26/2021 17:38	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000933	0.00317	1	05/26/2021 17:38	<a href="#">WG1677778</a>
Total Xylenes	U		0.00111	0.00823	1	05/26/2021 17:38	<a href="#">WG1677778</a>
(S) Toluene-d8	104			75.0-131		05/26/2021 17:38	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	103			67.0-138		05/26/2021 17:38	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		05/26/2021 17:38	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.07	J	1.82	4.53	1	05/28/2021 13:32	<a href="#">WG1678635</a>
C28-C40 Oil Range	5.04		0.311	4.53	1	05/28/2021 13:32	<a href="#">WG1678635</a>
(S) o-Terphenyl	70.3			18.0-148		05/28/2021 13:32	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	923		10.7	23.3	1	06/03/2021 08:44	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0253	0.117	1	05/26/2021 07:08	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	117			77.0-120		05/26/2021 07:08	<a href="#">WG1677457</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000623	0.00133	1	05/26/2021 17:57	<a href="#">WG1677778</a>
Toluene	U		0.00173	0.00667	1	05/26/2021 17:57	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000983	0.00333	1	05/26/2021 17:57	<a href="#">WG1677778</a>
Total Xylenes	U		0.00117	0.00867	1	05/26/2021 17:57	<a href="#">WG1677778</a>
(S) Toluene-d8	105			75.0-131		05/26/2021 17:57	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	101			67.0-138		05/26/2021 17:57	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	84.3			70.0-130		05/26/2021 17:57	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.02	J	1.88	4.67	1	05/28/2021 07:25	<a href="#">WG1678635</a>
C28-C40 Oil Range	5.95		0.320	4.67	1	05/28/2021 07:25	<a href="#">WG1678635</a>
(S) o-Terphenyl	76.2			18.0-148		05/28/2021 07:25	<a href="#">WG1678635</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	05/26/2021 13:14	<a href="#">WG1677022</a>

<sup>1</sup> Cp<sup>2</sup> 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	65.0	<a href="#">P1</a>	10.8	23.5	1	06/03/2021 08:53	<a href="#">WG1680542</a>

<sup>3</sup> Ss<sup>4</sup> 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		0.0255	0.117	1	05/26/2021 07:31	<a href="#">WG1677457</a>
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/26/2021 07:31	<a href="#">WG1677457</a>

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> 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		0.000631	0.00135	1	05/26/2021 18:16	<a href="#">WG1677778</a>
Toluene	U		0.00176	0.00675	1	05/26/2021 18:16	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000995	0.00338	1	05/26/2021 18:16	<a href="#">WG1677778</a>
Total Xylenes	U		0.00119	0.00878	1	05/26/2021 18:16	<a href="#">WG1677778</a>
(S) Toluene-d8	103			75.0-131		05/26/2021 18:16	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	103			67.0-138		05/26/2021 18:16	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		05/26/2021 18:16	<a href="#">WG1677778</a>

<sup>8</sup> Al<sup>9</sup> 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		1.89	4.70	1	05/28/2021 07:38	<a href="#">WG1678635</a>
C28-C40 Oil Range	0.944	<a href="#">B J</a>	0.322	4.70	1	05/28/2021 07:38	<a href="#">WG1678635</a>
(S) o-Terphenyl	47.5			18.0-148		05/28/2021 07:38	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.2		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	99.8		10.8	23.5	1	06/03/2021 09:13	<a href="#">WG1680542</a>

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

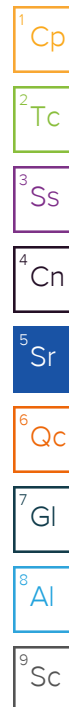
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0255	0.117	1	05/28/2021 04:28	<a href="#">WG1678956</a>
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/28/2021 04:28	<a href="#">WG1678956</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000630	0.00135	1	05/26/2021 18:35	<a href="#">WG1677778</a>
Toluene	U		0.00175	0.00675	1	05/26/2021 18:35	<a href="#">WG1677778</a>
Ethylbenzene	U		0.000995	0.00337	1	05/26/2021 18:35	<a href="#">WG1677778</a>
Total Xylenes	U		0.00119	0.00877	1	05/26/2021 18:35	<a href="#">WG1677778</a>
(S) Toluene-d8	103			75.0-131		05/26/2021 18:35	<a href="#">WG1677778</a>
(S) 4-Bromofluorobenzene	104			67.0-138		05/26/2021 18:35	<a href="#">WG1677778</a>
(S) 1,2-Dichloroethane-d4	90.5			70.0-130		05/26/2021 18:35	<a href="#">WG1677778</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.89	4.70	1	05/28/2021 07:52	<a href="#">WG1678635</a>
C28-C40 Oil Range	2.33	<a href="#">B J</a>	0.322	4.70	1	05/28/2021 07:52	<a href="#">WG1678635</a>
(S) o-Terphenyl	67.5			18.0-148		05/28/2021 07:52	<a href="#">WG1678635</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.2		1	05/26/2021 13:14	<a href="#">WG1677022</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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	15.6	J	9.46	20.6	1	06/03/2021 09:22	<a href="#">WG1680542</a>

## 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		0.0223	0.103	1	05/28/2021 04:51	<a href="#">WG1678956</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/28/2021 04:51	<a href="#">WG1678956</a>

## 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		0.000494	0.00106	1	05/27/2021 08:56	<a href="#">WG1678003</a>
Toluene	U		0.00137	0.00528	1	05/27/2021 08:56	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000779	0.00264	1	05/27/2021 08:56	<a href="#">WG1678003</a>
Total Xylenes	U		0.000930	0.00687	1	05/27/2021 08:56	<a href="#">WG1678003</a>
(S) Toluene-d8	106			75.0-131		05/27/2021 08:56	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	89.6			67.0-138		05/27/2021 08:56	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	70.3			70.0-130		05/27/2021 08:56	<a href="#">WG1678003</a>

## 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	10.3		1.66	4.11	1	05/28/2021 17:47	<a href="#">WG1678635</a>
C28-C40 Oil Range	27.5		0.282	4.11	1	05/28/2021 17:47	<a href="#">WG1678635</a>
(S) o-Terphenyl	75.7			18.0-148		05/28/2021 17:47	<a href="#">WG1678635</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	05/26/2021 13:14	<a href="#">WG1677022</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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	19.7	J	9.43	20.5	1	06/03/2021 09:32	<a href="#">WG1680542</a>

## 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	05/28/2021 05:14	<a href="#">WG1678956</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/28/2021 05:14	<a href="#">WG1678956</a>

## 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		0.000490	0.00105	1	05/27/2021 09:15	<a href="#">WG1678003</a>
Toluene	U		0.00136	0.00524	1	05/27/2021 09:15	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000773	0.00262	1	05/27/2021 09:15	<a href="#">WG1678003</a>
Total Xylenes	U		0.000923	0.00682	1	05/27/2021 09:15	<a href="#">WG1678003</a>
(S) Toluene-d8	108			75.0-131		05/27/2021 09:15	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	89.6			67.0-138		05/27/2021 09:15	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	71.3			70.0-130		05/27/2021 09:15	<a href="#">WG1678003</a>

## 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	13.2		1.65	4.10	1	05/28/2021 18:01	<a href="#">WG1678635</a>
C28-C40 Oil Range	43.4		0.281	4.10	1	05/28/2021 18:01	<a href="#">WG1678635</a>
(S) o-Terphenyl	76.9			18.0-148		05/28/2021 18:01	<a href="#">WG1678635</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## 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		9.40	20.4	1	06/03/2021 10:08	<a href="#">WG1680542</a>

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

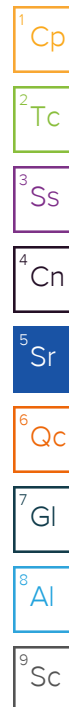
Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	05/28/2021 05:37	<a href="#">WG1678956</a>
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/28/2021 05:37	<a href="#">WG1678956</a>

## 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		0.000487	0.00104	1	05/27/2021 09:34	<a href="#">WG1678003</a>
Toluene	U		0.00136	0.00522	1	05/27/2021 09:34	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000769	0.00261	1	05/27/2021 09:34	<a href="#">WG1678003</a>
Total Xylenes	U		0.000919	0.00679	1	05/27/2021 09:34	<a href="#">WG1678003</a>
(S) Toluene-d8	107			75.0-131		05/27/2021 09:34	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	88.3			67.0-138		05/27/2021 09:34	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	81.7			70.0-130		05/27/2021 09:34	<a href="#">WG1678003</a>

## 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	14.0		1.65	4.09	1	05/28/2021 08:46	<a href="#">WG1678635</a>
C28-C40 Oil Range	49.0		0.280	4.09	1	05/28/2021 08:46	<a href="#">WG1678635</a>
(S) o-Terphenyl	72.8			18.0-148		05/28/2021 08:46	<a href="#">WG1678635</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	05/26/2021 13:14	<a href="#">WG1677022</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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		9.38	20.4	1	06/03/2021 10:18	<a href="#">WG1680542</a>

## 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		0.0221	0.102	1	05/28/2021 20:08	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		05/28/2021 20:08	<a href="#">WG1678821</a>

## 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		0.000485	0.00104	1	05/27/2021 09:53	<a href="#">WG1678003</a>
Toluene	U		0.00135	0.00520	1	05/27/2021 09:53	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000766	0.00260	1	05/27/2021 09:53	<a href="#">WG1678003</a>
Total Xylenes	U		0.000915	0.00676	1	05/27/2021 09:53	<a href="#">WG1678003</a>
(S) Toluene-d8	108			75.0-131		05/27/2021 09:53	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	89.9			67.0-138		05/27/2021 09:53	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	74.2			70.0-130		05/27/2021 09:53	<a href="#">WG1678003</a>

## 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	15.8		1.64	4.08	1	05/29/2021 01:02	<a href="#">WG1678636</a>
C28-C40 Oil Range	45.9		0.279	4.08	1	05/29/2021 01:02	<a href="#">WG1678636</a>
(S) o-Terphenyl	78.5			18.0-148		05/29/2021 01:02	<a href="#">WG1678636</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	05/26/2021 13:14	<a href="#">WG1677022</a>

## 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		9.35	20.3	1	06/03/2021 10:27	<a href="#">WG1680542</a>

## 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		0.0221	0.102	1	05/28/2021 20:31	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	94.4			77.0-120		05/28/2021 20:31	<a href="#">WG1678821</a>

## 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		0.000482	0.00103	1	05/27/2021 10:12	<a href="#">WG1678003</a>
Toluene	U		0.00134	0.00516	1	05/27/2021 10:12	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000761	0.00258	1	05/27/2021 10:12	<a href="#">WG1678003</a>
Total Xylenes	U		0.000909	0.00671	1	05/27/2021 10:12	<a href="#">WG1678003</a>
(S) Toluene-d8	106			75.0-131		05/27/2021 10:12	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	94.4			67.0-138		05/27/2021 10:12	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	86.8			70.0-130		05/27/2021 10:12	<a href="#">WG1678003</a>

## 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	200		32.7	81.3	20	05/30/2021 10:58	<a href="#">WG1678636</a>
C28-C40 Oil Range	312		5.57	81.3	20	05/30/2021 10:58	<a href="#">WG1678636</a>
(S) o-Terphenyl	0.000	<a href="#">J7</a>		18.0-148		05/30/2021 10:58	<a href="#">WG1678636</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	05/25/2021 19:42	<a href="#">WG1677024</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		9.35	20.3	1	06/03/2021 10:37	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	05/28/2021 20:55	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	93.7			77.0-120		05/28/2021 20:55	<a href="#">WG1678821</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	05/27/2021 10:31	<a href="#">WG1678003</a>
Toluene	U		0.00134	0.00516	1	05/27/2021 10:31	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000761	0.00258	1	05/27/2021 10:31	<a href="#">WG1678003</a>
Total Xylenes	U		0.000909	0.00671	1	05/27/2021 10:31	<a href="#">WG1678003</a>
(S) Toluene-d8	104			75.0-131		05/27/2021 10:31	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	86.0			67.0-138		05/27/2021 10:31	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	74.7			70.0-130		05/27/2021 10:31	<a href="#">WG1678003</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	193		16.4	40.7	10	05/29/2021 01:15	<a href="#">WG1678636</a>
C28-C40 Oil Range	243		2.78	40.7	10	05/29/2021 01:15	<a href="#">WG1678636</a>
(S) o-Terphenyl	70.6			18.0-148		05/29/2021 01:15	<a href="#">WG1678636</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	05/25/2021 19:42	<a href="#">WG1677024</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	29.4		9.51	20.7	1	06/03/2021 10:46	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	05/28/2021 21:19	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		05/28/2021 21:19	<a href="#">WG1678821</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000498	0.00107	1	05/27/2021 10:50	<a href="#">WG1678003</a>
Toluene	U		0.00139	0.00533	1	05/27/2021 10:50	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000786	0.00267	1	05/27/2021 10:50	<a href="#">WG1678003</a>
Total Xylenes	U		0.000939	0.00693	1	05/27/2021 10:50	<a href="#">WG1678003</a>
(S) Toluene-d8	108			75.0-131		05/27/2021 10:50	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	91.3			67.0-138		05/27/2021 10:50	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	73.1			70.0-130		05/27/2021 10:50	<a href="#">WG1678003</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.61		1.66	4.13	1	05/29/2021 00:48	<a href="#">WG1678636</a>
C28-C40 Oil Range	27.4		0.283	4.13	1	05/29/2021 00:48	<a href="#">WG1678636</a>
(S) o-Terphenyl	79.2			18.0-148		05/29/2021 00:48	<a href="#">WG1678636</a>



Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	05/25/2021 19:42	<a href="#">WG1677024</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	30.3		9.49	20.6	1	06/03/2021 10:56	<a href="#">WG1680542</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	05/28/2021 21:43	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		05/28/2021 21:43	<a href="#">WG1678821</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000497	0.00106	1	05/27/2021 11:09	<a href="#">WG1678003</a>
Toluene	U		0.00138	0.00532	1	05/27/2021 11:09	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000784	0.00266	1	05/27/2021 11:09	<a href="#">WG1678003</a>
Total Xylenes	U		0.000936	0.00691	1	05/27/2021 11:09	<a href="#">WG1678003</a>
(S) Toluene-d8	109			75.0-131		05/27/2021 11:09	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	93.3			67.0-138		05/27/2021 11:09	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	75.1			70.0-130		05/27/2021 11:09	<a href="#">WG1678003</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.24		1.66	4.13	1	05/29/2021 00:35	<a href="#">WG1678636</a>
C28-C40 Oil Range	25.1		0.283	4.13	1	05/29/2021 00:35	<a href="#">WG1678636</a>
(S) o-Terphenyl	76.0			18.0-148		05/29/2021 00:35	<a href="#">WG1678636</a>

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	05/25/2021 19:42	<a href="#">WG1677024</a>

## 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		11.1	24.1	1	06/03/2021 05:34	<a href="#">WG1680538</a>

## 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		0.0262	0.121	1	05/28/2021 22:07	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		05/28/2021 22:07	<a href="#">WG1678821</a>

## 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		0.000660	0.00141	1	05/27/2021 11:28	<a href="#">WG1678003</a>
Toluene	U		0.00184	0.00707	1	05/27/2021 11:28	<a href="#">WG1678003</a>
Ethylbenzene	U		0.00104	0.00353	1	05/27/2021 11:28	<a href="#">WG1678003</a>
Total Xylenes	U		0.00124	0.00919	1	05/27/2021 11:28	<a href="#">WG1678003</a>
(S) Toluene-d8	108			75.0-131		05/27/2021 11:28	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	89.7			67.0-138		05/27/2021 11:28	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	72.5			70.0-130		05/27/2021 11:28	<a href="#">WG1678003</a>

## 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	3.17	J	1.94	4.82	1	05/28/2021 20:58	<a href="#">WG1678636</a>
C28-C40 Oil Range	5.29		0.330	4.82	1	05/28/2021 20:58	<a href="#">WG1678636</a>
(S) o-Terphenyl	69.3			18.0-148		05/28/2021 20:58	<a href="#">WG1678636</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 05/18/21 00:00

L1355900

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.6		1	05/25/2021 19:42	<a href="#">WG1677024</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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		9.33	20.3	1	06/03/2021 05:43	<a href="#">WG1680538</a>

## 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		0.0220	0.101	1	05/28/2021 22:30	<a href="#">WG1678821</a>
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		05/28/2021 22:30	<a href="#">WG1678821</a>

## 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		0.000480	0.00103	1	05/27/2021 11:47	<a href="#">WG1678003</a>
Toluene	U		0.00134	0.00514	1	05/27/2021 11:47	<a href="#">WG1678003</a>
Ethylbenzene	U		0.000758	0.00257	1	05/27/2021 11:47	<a href="#">WG1678003</a>
Total Xylenes	U		0.000905	0.00668	1	05/27/2021 11:47	<a href="#">WG1678003</a>
(S) Toluene-d8	108			75.0-131		05/27/2021 11:47	<a href="#">WG1678003</a>
(S) 4-Bromofluorobenzene	91.2			67.0-138		05/27/2021 11:47	<a href="#">WG1678003</a>
(S) 1,2-Dichloroethane-d4	85.4			70.0-130		05/27/2021 11:47	<a href="#">WG1678003</a>

## 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	212		16.3	40.6	10	05/29/2021 01:29	<a href="#">WG1678636</a>
C28-C40 Oil Range	308		2.78	40.6	10	05/29/2021 01:29	<a href="#">WG1678636</a>
(S) o-Terphenyl	67.2			18.0-148		05/29/2021 01:29	<a href="#">WG1678636</a>

Total Solids by Method 2540 G-2011 [L1355900-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3659826-1 05/26/21 10:53

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1355900-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1355900-02 05/26/21 10:53 • (DUP) R3659826-3 05/26/21 10:53

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	98.0	98.0	1	0.00184		10

<sup>7</sup>Gl

<sup>8</sup>Al

Laboratory Control Sample (LCS)

(LCS) R3659826-2 05/26/21 10:53

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

<sup>9</sup>Sc

Total Solids by Method 2540 G-2011 [L1355900-08,09,10,11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3659779-1 05/26/21 13:14

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1355900-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1355900-12 05/26/21 13:14 • (DUP) R3659779-3 05/26/21 13:14

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.2	85.1	1	0.0455		10

<sup>7</sup>Gl

<sup>8</sup>Al

Laboratory Control Sample (LCS)

(LCS) R3659779-2 05/26/21 13:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	49.7	99.5	85.0-115	

<sup>9</sup>Sc



Total Solids by Method 2540 G-2011

[L1355900-18,19,20,21,22](#)

Method Blank (MB)

(MB) R3659332-1 05/25/21 19:42

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1355900-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1355900-22 05/25/21 19:42 • (DUP) R3659332-3 05/25/21 19:42

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	98.6	98.5	1	0.164		10

Laboratory Control Sample (LCS)

(LCS) R3659332-2 05/25/21 19:42

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

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3662826-1 06/03/21 01:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1355882-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1355882-04 06/03/21 02:00 • (DUP) R3662826-3 06/03/21 02:09

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	50.4	54.6	1	7.87		20

L1355882-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1355882-14 06/03/21 04:27 • (DUP) R3662826-6 06/03/21 04:36

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	88.8	82.0	1	7.88		20

Laboratory Control Sample (LCS)

(LCS) R3662826-2 06/03/21 01:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	191	95.6	90.0-110	

L1355882-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355882-04 06/03/21 02:00 • (MS) R3662826-4 06/03/21 02:24 • (MSD) R3662826-5 06/03/21 02:33

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	511	50.4	489	523	85.9	92.5	1	80.0-120			6.66	20

Wet Chemistry by Method 300.0

[L1355900-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3662827-1 06/03/21 06:12

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1355900-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355900-01 06/03/21 06:31 • (DUP) R3662827-3 06/03/21 06:40

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	690	636	1	8.15		20

L1355900-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1355900-11 06/03/21 08:53 • (DUP) R3662827-6 06/03/21 09:03

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	65.0	91.6	1	34.0	P1	20

Laboratory Control Sample (LCS)

(LCS) R3662827-2 06/03/21 06:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Chloride	200	194	97.0	90.0-110	

L1355900-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355900-01 06/03/21 06:31 • (MS) R3662827-4 06/03/21 06:50 • (MSD) R3662827-5 06/03/21 06:59

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	559	690	1170	1140	86.6	81.2	1	80.0-120	E	E	2.61	20

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

[L1355900-01,02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3660224-3 05/26/21 00:59

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)	120			77.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3660224-1 05/25/21 23:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.99	90.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

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

[L1355900-16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3661588-2 05/28/21 13:33

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)	99.2			77.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3661588-1 05/28/21 12:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.00	90.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			111	77.0-120	



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

[L1355900-12,13,14,15](#)

Method Blank (MB)

(MB) R3661608-2 05/28/21 03:43

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)	118			77.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3661608-1 05/28/21 02:23

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)			108	77.0-120	

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

[L1355900-01,02,03,04,05,06,07,08,09,10,11,12](#)

## Method Blank (MB)

(MB) R3660445-3 05/26/21 09:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	98.6			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	86.8			70.0-130

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

(LCS) R3660445-1 05/26/21 08:42 • (LCSD) R3660445-2 05/26/21 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.132	0.121	106	96.8	70.0-123			8.70	20
Ethylbenzene	0.125	0.136	0.126	109	101	74.0-126			7.63	20
Toluene	0.125	0.136	0.121	109	96.8	75.0-121			11.7	20
Xylenes, Total	0.375	0.404	0.376	108	100	72.0-127			7.18	20
(S) Toluene-d8				103	99.1	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				83.6	87.1	70.0-130				

## L1355917-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355917-21 05/26/21 14:47 • (MS) R3660445-4 05/26/21 18:54 • (MSD) R3660445-5 05/26/21 19:13

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 %
Benzene	0.140	U	0.136	0.0651	97.6	46.6	1	10.0-149		J3	70.8	37
Ethylbenzene	0.140	U	0.138	0.0673	98.4	48.2	1	10.0-160		J3	68.6	38
Toluene	0.140	U	0.138	0.0690	98.4	49.4	1	10.0-156		J3	66.4	38
Xylenes, Total	0.419	U	0.405	0.183	96.5	43.7	1	10.0-160		J3	75.3	38
(S) Toluene-d8					101	105		75.0-131				
(S) 4-Bromofluorobenzene					113	105		67.0-138				
(S) 1,2-Dichloroethane-d4					92.1	86.0		70.0-130				

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

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

L1355900-13,14,15,16,17,18,19,20,21,22

Method Blank (MB)

(MB) R3660407-2 05/27/21 06:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	108			75.0-131
(S) 4-Bromofluorobenzene	93.9			67.0-138
(S) 1,2-Dichloroethane-d4	87.6			70.0-130

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3660407-1 05/27/21 05:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.114	91.2	70.0-123	
Ethylbenzene	0.125	0.110	88.0	74.0-126	
Toluene	0.125	0.119	95.2	75.0-121	
Xylenes, Total	0.375	0.350	93.3	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) 4-Bromofluorobenzene			92.9	67.0-138	
(S) 1,2-Dichloroethane-d4			87.5	70.0-130	

L1356056-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1356056-01 05/27/21 14:00 • (MS) R3660407-3 05/27/21 14:58 • (MSD) R3660407-4 05/27/21 15:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	12.4	1.38	10.6	7.80	74.4	51.8	99	10.0-149			30.4	37
Ethylbenzene	12.4	80.0	93.0	83.1	105	25.0	99	10.0-160			11.2	38
Toluene	12.4	162	175	160	105	0.000	99	10.0-156		V	8.96	38
Xylenes, Total	37.2	508	555	507	126	0.000	99	10.0-160		V	9.04	38
(S) Toluene-d8					109	103		75.0-131				
(S) 4-Bromofluorobenzene					113	109		67.0-138				
(S) 1,2-Dichloroethane-d4					96.0	98.3		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1355900-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R3660326-1 05/28/21 05:36

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	0.336	⬇	0.274	4.00
(S) o-Terphenyl	76.3			18.0-148

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3660326-2 05/28/21 05:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.2	84.4	50.0-150	
(S) o-Terphenyl			90.4	18.0-148	

L1355900-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355900-07 05/28/21 06:17 • (MS) R3660326-3 05/28/21 06:30 • (MSD) R3660326-4 05/28/21 06:44

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 %
C10-C28 Diesel Range	59.0	3.21	45.6	48.8	71.9	79.1	1	50.0-150			6.83	20
(S) o-Terphenyl					76.9	79.8		18.0-148				

Semi-Volatile Organic Compounds (GC) by Method 8015 [L1355900-16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3660986-1 05/28/21 20:31

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	U		0.274	4.00
(S) o-Terphenyl	79.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3660986-2 05/28/21 20:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	45.6	91.2	50.0-150	
(S) o-Terphenyl			93.7	18.0-148	

L1356028-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1356028-05 05/28/21 23:27 • (MS) R3660986-3 05/28/21 23:41 • (MSD) R3660986-4 05/28/21 23:54

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 %
C10-C28 Diesel Range	63.4	U	49.1	53.9	77.4	85.2	1	50.0-150			9.38	20
(S) o-Terphenyl					81.9	92.4		18.0-148				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Guide to Reading and Understanding Your Laboratory Report

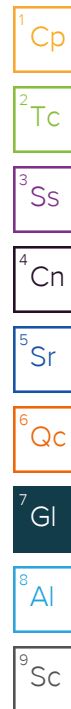
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



## 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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

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

## Analysis Request of Chain of Custody Record

1355900

K-036

Page 1 of 3



Tetra Tech, Inc.

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

Client Name:	ConocoPhillips	Site Manager:	Christian Llull
Project Name:	Elvis (East) Release		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02481
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Devin Dominguez
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 / 624	TPH TX1005 (Ext to C3:3:3)	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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	Hold	
		YEAR: 2021		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None																									
		DATE	TIME																															
01	BHE-1 (0'-1')	5/18/2021		X			X			1	N	X	X																					
02	BHE-1 (1'-1.5')	5/18/2021		X			X			1	N	X	X														X							
03	BHE-1 (2'-2.5')	5/18/2021		X			X			1	N	X	X														X							
04	BHE-1 (3'-3.5')	5/18/2021		X			X			1	N	X	X														X							
05	BHE-1 (4'-4.5')	5/18/2021		X			X			1	N	X	X														X							
06	BHE-1 (5'-5.5')	5/18/2021		X			X			1	N	X	X														X							
07	BHE-1 (6'-6.5')	5/18/2021		X			X			1	N	X	X														X							
08	BHE-1 (7'-7.5')	5/18/2021		X			X			1	N	X	X														X							
09	BHE-1 (8'-8.5')	5/18/2021		X			X			1	N	X	X														X							
10	BHE-1 (9'-9.5')	5/18/2021		X			X			1	N	X	X														X							

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/19/21	9:00		5-19-21	9:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5-19-21	15:00		5-19-21	15:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				5/20/21	0800

## LAB USE ONLY

Sample Temperature

## REMARKS:

☒ STANDARD☐ RUSH: Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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TC: 22=402



## Analysis Request of Chain of Custody Record

1355900

Page 2 of 3



Tetra Tech, Inc.

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

Client Name:	ConocoPhillips	Site Manager:	Christian Lull
Project Name:	Elvis (East) Release		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02481
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Devin Dominguez
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 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DI)	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	Sulfate	General Water Chemistry	Anion/Cation Balance	TPH 8015F				Hold		
		YEAR: 2021		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None																												
		DATE	TIME																																		
11	BHE-1 (10'-10.5')	5/18/2021			X			X			1	N	X	X														X									
12	BHE-1 (11'-11.5')	5/18/2021			X			X			1	N	X	X															X								
13	BHE-2 (0-1')	5/18/2021			X			X			1	N	X	X															X								
14	BHE-2 (1'-1.5')	5/18/2021			X			X			1	N	X	X															X								
15	BHE-3 (0-1')	5/18/2021			X			X			1	N	X	X															X								
16	BHE-3 (1'-1.5')	5/18/2021			X			X			1	N	X	X															X								
17	BHE-4 (0-1')	5/18/2021			X			X			1	N	X	X															X								
18	BHE-4 (1'-1.5')	5/18/2021			X			X			1	N	X	X															X								
19	BHE-5 (0-1')	5/18/2021			X			X			1	N	X	X															X								
20	BHE-5 (1'-1.5')	5/18/2021			X			X			1	N	X	X															X								
Relinquished by:		Date: Time:				X		X			1	N	X	X														X									

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/19/21	9:20		5-19-21	9:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5-19-21	15:00		5-19-21	15:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				5/20/21	0800

## LAB USE ONLY

Sample Temperature

## REMARKS:

- ☒ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

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## Analysis Request of Chain of Custody Record

Page 3 of 3

**Tetra Tech, Inc.**
 900 West Wall Street, Ste 100  
 Midland, Texas 79701  
 Tel (432) 682-4559  
 Fax (432) 682-3946

Client Name:	ConocoPhillips	Site Manager:	Christian Lull
Project Name:	Elvis (East) Release		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02481
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Devin Dominguez
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 B Ba Cd Cr Pb Se Hg	TCLP Metals Ag As B 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	Chloride	Sulfate	General Water Chem	Anion/Cation Balance	TPH 8015R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/19/21	9:20		5-19-21	9:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5-19-21	15:00		5-19-21	15:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				5/20/21	0800

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
(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____	

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 4+1=5  
 A30T



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

---

February 04, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: COP - ELVIS TANK BATTERY ( EAST ) RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/01/22 12:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	02/01/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY ( EAST ) RE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02481	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

**Sample ID: AH E - 7 ( 0-1' ) (H220381-01)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2022	ND	2.01	100	2.00	6.65	
Toluene*	<0.050	0.050	02/02/2022	ND	1.93	96.3	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/02/2022	ND	1.94	97.1	2.00	6.58	
Total Xylenes*	<0.150	0.150	02/02/2022	ND	5.89	98.2	6.00	5.97	
Total BTEX	<0.300	0.300	02/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	02/02/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2022	ND	192	95.8	200	5.20	
DRO >C10-C28*	<10.0	10.0	02/03/2022	ND	240	120	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	02/03/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/01/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY ( EAST ) RE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02481	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

**Sample ID: AH E - 7 ( 1'-2' ) (H220381-02)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2022	ND	2.01	100	2.00	6.65		
Toluene*	<0.050	0.050	02/02/2022	ND	1.93	96.3	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/02/2022	ND	1.94	97.1	2.00	6.58		
Total Xylenes*	<0.150	0.150	02/02/2022	ND	5.89	98.2	6.00	5.97		
Total BTEX	<0.300	0.300	02/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	64.0	16.0	02/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2022	ND	192	95.8	200	5.20	
DRO >C10-C28*	<10.0	10.0	02/03/2022	ND	240	120	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	02/03/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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**Analytical Results For:**

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

Received:	02/01/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY ( EAST ) RE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02481	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

**Sample ID: AH E - 8 ( 0-1' ) (H220381-03)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2022	ND	2.01	100	2.00	6.65		
Toluene*	<0.050	0.050	02/02/2022	ND	1.93	96.3	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/02/2022	ND	1.94	97.1	2.00	6.58		
Total Xylenes*	<0.150	0.150	02/02/2022	ND	5.89	98.2	6.00	5.97		
Total BTEX	<0.300	0.300	02/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2022	ND	220	110	200	28.4	
DRO >C10-C28*	<10.0	10.0	02/02/2022	ND	259	129	200	6.30	
EXT DRO >C28-C36	<10.0	10.0	02/02/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/01/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY ( EAST ) RE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02481	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

**Sample ID: AH E - 8 ( 1'-2' ) (H220381-04)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2022	ND	2.01	100	2.00	6.65		
Toluene*	<0.050	0.050	02/02/2022	ND	1.93	96.3	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/02/2022	ND	1.94	97.1	2.00	6.58		
Total Xylenes*	<0.150	0.150	02/02/2022	ND	5.89	98.2	6.00	5.97		
Total BTEX	<0.300	0.300	02/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	02/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2022	ND	220	110	200	28.4	
DRO >C10-C28*	<10.0	10.0	02/02/2022	ND	259	129	200	6.30	
EXT DRO >C28-C36	<10.0	10.0	02/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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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

[illegible]



## **APPENDIX E**

### **Soil Boring Logs**

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BG-1</b>				Page 1 of 2	
Project Name: Elvis (East) Assessment									
Borehole Location: GPS: 32.822481°, -103.791223°					Surface Elevation: 3991 ft				
Borehole Number: BG-1				Borehole Diameter (in.): 8		Date Started: 5/18/2021		Date Finished: 5/18/2021	

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 <u>  </u> Dry ft    Upon Completion of Drilling <u>  </u> Dry ft				
												Remarks:				
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS			
5																
10																
13																
15																
18																
20																
25																
27																
30																

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. Surface elevation is an estimated value.
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Logger: Devin Dominguez	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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Released to Imaging: 3/21/2022 11:29:58 AM

212C-MD-02482	<b>TETRA TECH</b>	<b>LOG OF BORING BHE-1</b>	Page 1 of 1
Project Name: Elvis (East) Assessment			
Borehole Location: GPS: 32.822072°, -103.790424°		Surface Elevation: 3988 ft	
Borehole Number: BHE-1		Borehole Diameter (in.): 4	Date Started: 5/18/2021      Date Finished: 5/18/2021

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			
Remarks:												DEPTH (ft)	REMARKS			
MATERIAL DESCRIPTION																
5	Hand	784	58.8											-SM- SILTY SAND: Light tan, with gravel, loose to medium dense, low moisture	1	BHE-1 (0-1')
		121	0.3											-SM- SILTY SAND: Brown, with gravel, loose, damp to moist		BHE-1 (1-1.5')
		157	0.07												BHE-1 (2-2.5')	
		292	0.03												BHE-1 (3-3.5')	
		645	0.02												BHE-1 (4-4.5')	
		627	0.01												BHE-1 (5-5.5')	
		528	0.01												BHE-1 (6-6.5')	
		657	0.01												BHE-1 (7-7.5')	
		863	0.01												BHE-1 (8-8.5')	
		974	0.01												BHE-1 (9-9.5')	
10	Hand	326	0.01										-ML- SILT: Brown, medium dense, with occasional SILTY CLAY, moist	10	BHE-1 (10-10.5')	
281	0.01												BHE-1 (11-11.5')			

Bottom of borehole at 11.5 feet.

<b>Sampler Types:</b> <input checked="" type="checkbox"/> Split Spoon <input checked="" type="checkbox"/> Shelby <input checked="" type="checkbox"/> Bulk Sample <input checked="" type="checkbox"/> Grab Sample	<input checked="" type="checkbox"/> Acetate Liner <input checked="" type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> California <input checked="" type="checkbox"/> Test Pit	<b>Operation Types:</b> <input checked="" type="checkbox"/> Mud Rotary <input checked="" type="checkbox"/> Continuous Flight Auger <input checked="" type="checkbox"/> Wash Rotary	<input checked="" type="checkbox"/> Hand Auger <input checked="" type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
--	---	---	--	--

Logger: Devin Dominguez	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BHE-2</b>				Page 1 of 1						
Project Name: Elvis (East) Assessment														
Borehole Location: GPS: 32.822265°, -103.790396°					Surface Elevation: 3988 ft									
Borehole Number: BHE-2				Borehole Diameter (in.): 4		Date Started: 5/18/2021		Date Finished: 5/18/2021						
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		
			ExStik	PID								While Drilling <u>  </u> <u>  </u> ft    Upon Completion of Drilling <u>  </u> <u>  </u> ft Remarks:		
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS	
			106	0.02										
			110	0.04									1	BHE-2 (0-1')
													1.5	BHE-2 (1-1.5')
Bottom of borehole at 1.5 feet.														
Sampler Types:		<input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Shelby <input type="checkbox"/> Vane Shear <input type="checkbox"/> Bulk Sample <input type="checkbox"/> California <input type="checkbox"/> Grab Sample <input type="checkbox"/> Test Pit		Operation Types:		<input type="checkbox"/> Hand Auger <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Direct Push <input type="checkbox"/> Wash Rotary <input type="checkbox"/> Core Barrel		Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.						
Logger: Devin Dominguez				Drilling Equipment: Hand Auger				Driller: Tetra Tech						

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BHE-3</b>				Page 1 of 1								
Project Name: Elvis (East) Assessment																
Borehole Location: GPS: 32.822145°, -103.790443°					Surface Elevation: 3988 ft											
Borehole Number: BHE-3				Borehole Diameter (in.): 4		Date Started: 5/18/2021		Date Finished: 5/18/2021								
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	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>  </u> <u>  </u> <u>  </u> ft    Upon Completion of Drilling <u>  </u> <u>  </u> <u>  </u> ft Remarks:				
												MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS	
			ExStik	PID										- <b>SM</b> - SILTY SAND: Light tan, with gravel, loose to medium dense, low moisture	1	BHE-3 (0-1')
			0.06	91.3										- <b>SM</b> - SILTY SAND: Brown, with gravel, loose, damp to moist	1.5	BHE-3 (1-1.5')
Bottom of borehole at 1.5 feet.																
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>			<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>			<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.										
Logger: Devin Dominguez			Drilling Equipment: Hand Auger			Driller: Tetra Tech										



212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BHE-4</b>				Page 1 of 1						
Project Name: Elvis (East) Assessment														
Borehole Location: GPS: 32.822002°, -103.790564°					Surface Elevation: 3988 ft									
Borehole Number: BHE-4				Borehole Diameter (in.): 4		Date Started: 5/18/2021		Date Finished: 5/18/2021						
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	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>∇</u> Dry ft    Upon Completion of Drilling <u>▼</u> Dry ft  Remarks:		
			ExStik	PID					LL			PI	MATERIAL DESCRIPTION	DEPTH (ft)
		Hand	53.6	0.1								-SM- SILTY SAND: Light tan, with gravel, loose to medium dense, low moisture	1	BHE-4 (0-1')
		Hand	67.5	0.1								-SM- SILTY SAND: Brown, with gravel, loose, damp to moist	1.5	BHE-4 (1-1.5')
Bottom of borehole at 1.5 feet.														
<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample			Acetate Liner Vane Shear California Test Pit			<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary			Hand Auger Air Rotary Direct Push Core Barrel			<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.		
Logger: Devin Dominguez					Drilling Equipment: Hand Auger					Driller: Tetra Tech				

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BHE-5</b>				Page 1 of 1						
Project Name: Elvis (East) Assessment														
Borehole Location: GPS: 32.822055°, -103.790258°					Surface Elevation: 3989 ft									
Borehole Number: BHE-5				Borehole Diameter (in.): 4		Date Started: 5/18/2021		Date Finished: 5/18/2021						
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	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>∇</u> Dry ft    Upon Completion of Drilling <u>▼</u> Dry ft  Remarks:		
			ExStik	PID								DEPTH (ft)	REMARKS	
116	Hand	Hand	116	0.04							1	<b>-SM- SILTY SAND:</b> Light tan, with gravel, loose to medium dense, low moisture		BHE-5 (0-1')
												<b>-SM- SILTY SAND:</b> Brown, with gravel, loose, damp to moist		
112	Hand	Hand	112	0.05							1.5	<b>-SM- SILTY SAND:</b> Brown, with gravel, loose, damp to moist		BHE-5 (1-1.5')
Bottom of borehole at 1.5 feet.														
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>			<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>			<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.								
Logger: Devin Dominguez					Drilling Equipment: Hand Auger					Driller: Tetra Tech				

212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BHE-6</b>				Page 1 of 1							
Project Name: Elvis (East) Assessment															
Borehole Location: GPS: 32.822141°, -103.790302°					Surface Elevation: 3989 ft										
Borehole Number: BHE-6				Borehole Diameter (in.): 4		Date Started: 5/18/2021		Date Finished: 5/18/2021							
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	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> Dry ft    Upon Completion of Drilling <u>▽</u> Dry ft Remarks:			
			ExStik	PID	<b>MATERIAL DESCRIPTION</b>		DEPTH (ft)	REMARKS							
			68.5	0.08											-SM- SILTY SAND: Light tan, with gravel, loose to medium dense, low moisture
			54.3	0.1									-SM- SILTY SAND: Brown, with gravel, loose, damp to moist	1.5	
Bottom of borehole at 1.5 feet.															
Sampler Types:		<input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Shelby <input type="checkbox"/> Vane Shear <input type="checkbox"/> Bulk Sample <input type="checkbox"/> California <input type="checkbox"/> Grab Sample <input type="checkbox"/> Test Pit				Operation Types:				<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. Surface elevation is an estimated value.			
Logger: Devin Dominguez						Drilling Equipment: Hand Auger				Driller: Tetra Tech					

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

CONDITIONS

Action 82417

**CONDITIONS**

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 82417
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	CP's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	3/21/2022