

SITE INFORMATION

Closure Report Red Hills Unit #21H Incident ID: nAPP2302952170 Lea County, New Mexico Unit A Sec 33 T25S R33E 32.09306°, -103.57151°

Crude Oil and Produced Water Release Point of Release: Gasket failure on the 2" line on top of the wellhead compressor Release Date: 01/28/2023 Volume Released: 4 Barrels of Crude Oil and 13.3 Barrels of Produced Water Volume Recovered: 2 Barrels of Crude Oil and 13 Barrels of Produced Water



Prepared for: Cimarex Energy Co. of Colorado 600 N. Marienfeld Street Suite 600 Midland, Texas 79701

> Prepared by: Carmona Resources, LLC 310 West Wall Street Suite 500 Midland, Texas 79701

310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992



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March 19, 2023

New Mexico Oil Conservation Division 1220 South St, Francis Drive Santa Fe, New Mexico 87505

Re: Closure Report Red Hills Unit #21H Cimarex Energy Co. of Colorado Site Location: Unit A, S33 T25S, R33E (Lat 32.09306°, Long -103.57151°) Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Red Hills Unit #21H. The site is located at 32.09306°, - 103.57151° within Unit A, S33, T25S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on January 28, 2023, caused by a failed gasket from a 2" line on top of the wellhead compressor. It resulted in approximately four (4) barrels of crude oil and thirteen-point-three (13.3) barrels of produced water released. Two (2) barrels of crude oil and thirteen (13) barrels of produced water were recovered. Immediately after the release was noticed, all standing fluids and impacted soil on the surface was scrapped and stockpiled on plastic. The impacted area is located on the pad. Refer to Figure 3 for spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest groundwater determination bore is located approximately 0.74 miles West of the site in S33, T25S, R33E and was drilled in 2022.

On February 10, 2022, Scarborough Drilling, Inc drilled a groundwater determination bore to 55' below ground surface on a nearby location, 0.74 miles of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below the surface. The coordinates for the groundwater determination bore are 32.093649°, -103.584455°. See Appendix D for the log.

A groundwater variance was requested and granted on January 31, 2023. To use a groundwater determination bore drilled 0.74 miles West of the location.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).



• Chloride: 10,000 mg/kg.

4.0 Site Assessment Activities

On February 14, 2023, a third-party environmental consultant performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) sample points and four (4) horizontal sample points were advanced to depths ranging from the surface to 2' bgs inside the area of concern. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1. See Figure 3 for the sample locations.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on March 6, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-4 was excavated to a depth of 0.75' below the surface to remove all the impacted soils. A total of five (5) confirmation floor samples (CS-1 through CS-5), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 40 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusion

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Onner Mochning

Conner Moehring Sr. Project Manager

M

Ashton Thielke Sr. Project Manager

310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992







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Released to Imaging: 4/27/2023 3:33:49 PM





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APPENDIX A



Table 1 Cimarex Red Hills Unit #21H Lea County, New Mexico

O surveits ID	Data	Denth (in)		TPF	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (in)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	2/14/2023	0-0.5'	<49.9	68.0	<49.9	68.0	<0.00201	<0.00201	<0.00201	0.00552	0.00552	6,900
S-1	"	0.5-1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,340
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	223
	2/14/2023	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00000192	<0.00000192	<0.00000192	<0.000038	<0.000038	6,240
S-2	"	0.5-1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,640
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	165
	2/14/2023	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,430
S-3	"	0.5-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,330
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	33.6
	2/14/2023	0-0.5'	242	1,630	164	2,040	<0.0398	0.122	<0.0398	3.21	3.33	749
S-4	"	0.5-1'	<50.0	130	<50.0	130	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	142
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	13.6
H-1	2/14/2023	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	31.4
H-2	2/14/2023	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	30.9
H-3	2/14/2023	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	37.9
H-4	2/14/2023	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	61.1
Regulat	ory Criteria ^A		1,000	mg/kg		2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/k

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Soil Sample

(H) Horizontal Sample

Removed

Table 2 Cimarex Red Hills Unit #21 Lea County, New Mexico

0			TPH (mg/kg)				Benzene Toluer	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	3/8/2023	0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-2	3/8/2023	0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-3	3/8/2023	0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-4	3/8/2023	0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
CS-5	3/8/2023	0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-1	3/8/2023	0-0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	3/8/2023	0-0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	3/8/2023	0-0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	3/8/2023	0-0.75	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	ry Criteria ^A Analvzed		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons

ft-feet (CS) Confirmation Smaple

(SW) Sidewall Sample

APPENDIX B



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado



Cimarex Energy



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 4

Facility:Red Hills Unit #21H

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-5.



APPENDIX C



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	nAPP2302952170
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683				
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800				
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2302952170				
Contact mailing address: 600 N Marienfeld Street, Ste. 600					
Midland, TX 79701					

Location of Release Source

Latitude 32.09306_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Red Hills Unit 21H	Site Type: Well Pad
Date Release Discovered: 1/28/2023	API# (if applicable) 30-025-48443

Unit Letter	Section	Township	Range	County
А	33	258	33E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

	ial(s) Released (Select all that apply and attach calculations or speci-	fic justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 4	Volume Recovered (bbls) 2
Produced Water	Volume Released (bbls) 13.3	Volume Recovered (bbls) 13
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Equi	pment Failure	

The Lease Operator found the injection wellhead compressor releasing liquids from a 2" line on top of the compressor. The well was immediately shut in and the compressor shut down and isolated. The total fluid released was 17.3 barrels on the well pad with all fluids remaining on the pad. A vac truck was immediately called and recovered a total of 15 barrels from the pad and a surface scrape is scheduled to remove impacted soils. The root cause of the release is still under investigation. Any further remediation will be scheduled in the coming weeks. Spilled: 17.3 barrels water (4 barrels oil + 13.3 barrels water) Recovered: 15 barrels (2 barrels oil + 13 barrels water)

Page 2

Incident ID	nAPP2302952170
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?					
🗌 Yes 🖾 No						
-	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?					
By: Laci Luig To: OCD Enviro, BLM						
By: Email						
Initial Response						
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury						

 \boxtimes The source of the release has been stopped.

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

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

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Laci Luig	Title: ESH Specialist
Signature:	_ Date: 1/29/2023
email: laci.luig@coterra.com	Telephone: (432) 208-3035
OCD Only	
Received by: Jocelyn Harimon	Date:03/27/2023

Received by OCD: 3/27/2023 9:45:48 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 19 0f 10
Incident ID	nAPP2302952170
District RP	
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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 3/27/2023 Form C-141	9:45:48 AM State of New Mexico			Page 20 of 103
Page 4	Oil Conservation Divisio	n	Incident ID District RP	nAPP2302952170
B			Facility ID	
			Application ID	
regulations all operators are req public health or the environmen failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: Laci Luig Signature:QC email: laci.luig@coterra.com	tion given above is true and complete to t uired to report and/or file certain release n t. The acceptance of a C-141 report by th and remediate contamination that pose a t C-141 report does not relieve the operator	notifications and perform co ne OCD does not relieve the threat to groundwater, surfa	prrective actions for rele e operator of liability sho ce water, human health liance with any other feo	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyn	Harimon	Date:03/2	27/2023	

Oil Conservation Division

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Signature: A a c · A	Date: 3/24/2023
email: laci.luig@coterra.com	Telephone: (432) 208-3035
OCD Only	
OCD Only	00/07/0000
Received by: Jocelyn Harimon	Date: 03/27/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: <u>Jennifer Nobui</u>	Date:04/27/2023
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

Ashton Thielke

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Tuesday, January 31, 2023 9:56 AM
To:	Ashton Thielke
Cc: Subject:	Laci Luig RE: [EXTERNAL] Incident #: nAPP2302952170 - Red Hills Unit #21H (01.28.2023) -
Subject.	Closure Criteria Variance Request

Hello Ashton

After reviewing the information you provided in the below emails, OCD will accept your request for a variance to use criteria where groundwater is located between 51-100' (10,000 mg/kg chloride, 2,500 mg/kg TPH, etc). Please include this entire email chain and all attachments in your remediation plan/closure report to ensure the notifications and variance approvals are documented in the project file.

Please let me know if you have any questions.

Thanks, Jennifer Nobui

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Tuesday, January 31, 2023 8:37 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: RE: [EXTERNAL] Incident #: nAPP2302952170 - Red Hills Unit #21H (01.28.2023) - Closure Criteria Variance Request

Good morning,

The coordinates for this site is: 32.093711, -103.584500

Looking at the spill area and comparing it to this boring, the distance between to the is 0.74 miles.

Hope that helps!

🔿 COTERRA

Ashton Thielke | PBU - Environmental Consultant T: 432.813.5347 | M: 281.753.5659 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u> Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>
Sent: Tuesday, January 31, 2023 9:16 AM
To: Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>
Cc: Laci Luig <<u>Laci.Luig@coterra.com</u>>
Subject: RE: [EXTERNAL] Incident #: nAPP2302952170 - Red Hills Unit #21H (01.28.2023) - Closure Criteria Variance
Request

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Hi Ashton

Can you include the lat and long for the DTW boring advanced that is 0.78 miles away?

Thanks, Jennifer Nobui

From: Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>
Sent: Monday, January 30, 2023 3:39 PM
To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>
Cc: Laci Luig <<u>Laci.Luig@coterra.com</u>>
Subject: [EXTERNAL] Incident #: nAPP2302952170 - Red Hills Unit #21H (01.28.2023) - Closure Criteria Variance Request

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

Good afternoon Ms. Nobui,

Per our recent phone call, I'd like to request a closure criteria variance.

We have recently had a spill at the above mentioned site over the weekend on 01.28.2023.

The spill was contained 100% on pad.

Cimarex immediately removed all free standing fluids from the pad.

Cimarex plans to fully vertically/horizontally delineate per NMAC 19.15.29

Attached is groundwater research from the area surrounding our release.

All wells found on the USGS and NMSEO websites show groundwater to be >100'.

Also included are Groundwater Determination Bores installed at nearby Cimarex facilities.

The nearest Groundwater Determination Bore is located 0.78 Miles west of our spill area. (mentioned in phone call) It is also important to state that the NMSEO Water Well located 1.36 miles east of our spill area has a recent measured depth to water of 130' instead of the 110' that was originally reported.

This is an inactive windmill and was measured by Concho in January 2021 to have a water depth of 130'.

Information was found on page 2 of the closure report for incident #: nRM2029631183

Due to the depth of local groundwater and the site being in a low karst, Cimarex requests a closure criteria variance to reflect groundwater 51' - 100' as shown in Table 1 of 19.15.29.12 NMAC.

Please let me know if you have any questions,

Thanks!



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u> Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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Ashton Thielke

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Monday, March 6, 2023 4:26 PM
То:	Ashton Thielke
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] nAPP2302952170 - Red Hills Unit 21H - Confirmation Sampling Notification

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

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

JH

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



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Monday, March 6, 2023 2:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAPP2302952170 - Red Hills Unit 21H - Confirmation Sampling Notification

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

Good morning,

This new email serves as 48 hr notification for confirmation sampling on the above mentioned site. Sampling is now scheduled to begin as early as 9:00 (MST) March 8, 2023, weather and soil conditions permitting. Incident ID: nAPP2302952170 Coordinates: 32.9306, -103.57151

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u> Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX D





The Party State

香

10 10

204.36' - Drilled 1981

(212.97' - Drilled 1976

N

(Red Hills GWDB (02.10.2022) -->55

FA

Red Hills Unit #21H (01.28.2023)

232.96' - Drilled 2013-

280' - Drilled 2021

189.79 - Drilled 1986

Cascade 28 Fed #85 GWDB (06.14.2022) - >55'

Legend

1

Mitte untel

- location 50 Mile Radius
- 🍰 0.74 Miles 🍰 1.03 Miles
- 🎝 1.36 Miles
- 🍰 1.36 Miles
- 2 1.42 Miles

🍰 1.92 Miles

- 🚴 1.93 Miles
- 🕹 2.05 Miles
- GWDB >55'
- NMSEO Water Well
- Red Hills Unit #21H (01.28.2023)
- USGS Water Well

110' - Drilled 1925

Page 28 of 103



Red Hills Unit #21H (01.28.2023)

Released to Imaging: 4/27/2023 3:33:49 PM

Legend





- 🥖 Medium
- Red Hills Unit #21H (01.28.2023)





VERTEX

Daily Site Visit Report



Field Notes

9:10 Arrived on site and met up with Laci Luig from cimarex and no Scarborough drilling to drill for a GW bore.

9:14 Signed Cimarex JSA

Next Steps & Recommendations

1 Digitize the drilling log and come back within 72 hours to see if a bailer pulls up water. Borehole was drilled to 55 feet.



Site Photos Viewing Direction: West Viewing Direction: North 30' depth Borehole Location Viewing Direction: West Viewing Direction: West PVC Installation 35' depth



Viewing Direction: West	Viewing Direction: West
45' depth	50' depth
Viewing Direction: West	Viewing Direction: North
Descriptive Photo - 7 Hevelog Direction: West Descriptive Application: Creased: 2/10/2022 10:22:83 AM Lar22.29364/ Lorar-10.284455	So 3S 4b 45 45 50 Despirative Photo 8 45 45 45 45 45 50 50 50 50 50 50 50 50 50 50 50 50 50
PVC casing installation	Top 30' and goes down in 5' increments to 50'

•



Daily Site Visit Signature

Inspector: Mike Moffitt

Signature:

///////

Signature

.



Client:	Cimarex Energy Company of Colorado	Inspection Date:	2/15/2022
Site Location Name:	Red Hills Unit 1 SWD	Report Run Date:	2/28/2022 3:56 PM
Client Contact Name:	Kyle Blevins	API #:	
Client Contact Phone #:	(575)441-6781		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	limes
Arrived at Site	2/15/2022 11:30 AM		
Departed Site	2/15/2022 11:52 AM		

Field Notes

- 11:42 Arrived on site to put a bailer down the borehole to see if water moves through the screen and collected at depth.
- **11:43** Tied off the bailer with rope and a slip note around my hand for 65 feet worth of depth. this was to account for the 2 inch casing above ground.
- **11:44** Sent the bailer down hole from on top of my truck bed.
- **11:46** Pulled the bailer up, no water was found to be present.
- 11:49 Total depth of the well was measured with a tape and weight to be 55 feet BGS and 61 feet total. The additional footage was from the
 - 6ft of PVC casing located above the hole. The driller did this to make the Borehole location known to the workers on the pad.

Next Steps & Recommendations

1 Water was not present at the bottom of the borehole as evidenced by the results of trying to bail the well. This location is ready for P & A. No further testing will be required. GW is not present at 55' feet BGS.



Site PhotosViewing Direction: NorthViewing Direction: EastImage: Direction of Borehole and PVC casing above ground.Image: Direction of Borehole and PVC casing above ground.



Daily Site Visit Signature

Inspector: Mike Moffitt

Signature:

Run on 2/28/2022 3:56 PM UTC

.
SOIL BORE LOG					
Project:	Mesquite Vaca Draw ROW Spill	Date:	Jun 14, 2022		
Туре:	Exploratory Water Bore	Location:	Cascade 28 Fed #85H Pad		

Depth	Soil Type	Classification	Comments
0-0.5′	Caliche	N/A	
0.5-5′	Fine Sand	N/A	
5′-10′	Caliche	N/A	
10-55′	Fine Sand	N/A	6/14/22- Dry/No Water 6/17/22- Dry/ No Water

Page 1 of 1

PHOTOGRAPHIC DOCUMENTATION















		(quarters are 1=NW 2=NE (quarters are smallest to l		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Sec	Tws Rng	X Y	
	C 02313	2 3 3 26	25S 33E	636971 3552098* 😜	
× Driller Lic	ense:	Driller Company:			
Driller Na	me: UNKNOWN				
Drill Start	Date: 01/01/1925	Drill Finish Date:	06/30/1925	5 Plug Date:	
Log File D	ate:	PCW Rcv Date:		Source:	
Pump Typ	e:	Pipe Discharge Size:		Estimated Yield:	60 GPM
Casing Siz	e: 6.88	Depth Well:	150 feet	Depth Water:	110 feet

*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.

1/29/23 10:02 AM

POINT OF DIVERSION SUMMARY



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Groundwater levels for New Mexico

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Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 320615103352601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320615103352601 25S.33E.20.443331

Lea County, New Mexico

Latitude 32°06'15", Longitude 103°35'26" NAD27 Land-surface elevation 3,404 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data		
Tab-separated data		
<u>Graph of data</u>		
Reselect period		

Date \$	Time \$? Water- level \$ date- time accuracy	? Parameter ^{\$} code	Water level, feet below land surface	Water level, feet above ≎ specific vertical datum	Referenced vertical ≎ datum	? Status	? Method of measurement	? Measuring [♀] agency	? Source (measure
1970-12-08		D	62610		3189.60	NGVD29	1	Z		
1970-12-08		D	62611		3191.23	NAVD88	1	Z		
1970-12-08		D	72019	212.77			1	Z		
1976-01-08		D	62610		3189.40	NGVD29	1	Z		
1976-01-08		D	62611		3191.03	NAVD88	1	Z		
1976-01-08		D	72019	212.97			1	Z		

Explanation

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Roltins Unio waterdata uses applying static value and state and st

Received_by QGD: 3/27/2023 9:45:48 AM

USGS Groundwater for New Mexico: Water Levels -- 1 sites

Page 41 of 103

Section +	Code ÷	Description +
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2022-12-12 08:32:32 EST 0.28 0.25 nadww02 USA.gov

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Agency code = usgs site_no list = • 320631103351401

Minimum number of levels = 1

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USGS 320631103351401 25S.33E.20.443313

Lea County, New Mexico

Latitude 32°06'31", Longitude 103°35'14" NAD27 Land-surface elevation 3,398 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date 🗘	Time \$? Water- level \$ date- time accuracy	? Parameter ^{\$} code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical ≎ datum	? Status	? Method of measurement	? Measuring ^{\$} agency	? Source (measure
1981-03-25		D	62610		3192.01	NGVD29	1	Z		
1981-03-25		D	62611		3193.64	NAVD88	1	Z		
1981-03-25		D	72019	204.36			1	Z		

Ехр	lanation

Section \$	Code \$	Description \$
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement Z		Other.
Measuring agency		Not determined

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Section +	Code ÷	Description +
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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Agency code = usgs site_no list = • 320504103361801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320504103361801 25S.33E.31.24232

Lea County, New Mexico

Latitude 32°05'21.6", Longitude 103°36'12.7" NAD83 Land-surface elevation 3,403.00 feet above NGVD29 The depth of the well is 320 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer. **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date 🗘	Time \$? Water- level \$ date- time accuracy	? Parameter ^{\$} code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring ^{\$} agency	? Source measu
1954-07-26		D	62610		3145.45	NGVD29	1	Z		
1954-07-26		D	62611		3147.08	NAVD88	1	Z		
1954-07-26		D	72019	257.55			1	Z		
1970-12-08		D	62610		3162.86	NGVD29	Р	Z		
1970-12-08		D	62611		3164.49	NAVD88	Р	Z		
1970-12-08		D	72019	240.14			Р	Z		
2013-01-16	19:45 UTC	m	62610		3170.04	NGVD29	1	S	USGS	
2013-01-16	19:45 UTC	m	62611		3171.67	NAVD88	1	S	USGS	
2013-01-16	19:45 UTC	m	72019	232.96			1	S	USGS	

		Explanation	
Section \$	Code \$	Description	\$
Water-level date-time accuracy	D	Date is accurate to the Day	
Water-level date-time accuracy	m	Date is accurate to the Minute	

Rottins: //wis-waterdata.uago apyling/gwis/gwis/gwis/site_no=320504103361801&agency_cd=USGS&format=html

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USGS Groundwater for New Mexico: Water Levels -- 1 sites

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Section +	Code ÷	Description +
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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Search Results -- 1 sites found

Agency code = usgs site_no list = • 320449103360101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320449103360101 25S.33E.31.44424

Lea County, New Mexico

Latitude 32°04'49", Longitude 103°36'01" NAD27 Land-surface elevation 3,383 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data		
Tab-separated data		
<u>Graph of data</u>		
Reselect period		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1981-03-25		D	62610		3189.23	NGVD29	Р	Z		
1981-03-25		D	62611		3190.85	NAVD88	Р	Z		
1981-03-25		D	72019	192.15			Р	Z		
1986-03-18		D	62610		3191.59	NGVD29	1	Z		
1986-03-18		D	62611		3193.21	NAVD88	1	Z		
1986-03-18		D	72019	189.79			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

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Received_by QCD: 3/27/2023 9:45:48 AM

USGS Groundwater for New Mexico: Water Levels -- 1 sites

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Section	Code	Description
Status	1	Static
Status	Р	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication Processing and review completed.

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New Mexico Office of the State Engineer Point of Diversion Summary

			(quarter	s are 1=N	W 2=N	E 3=SW				
		(quarte	ers are sma	allest to	argest	(NAD83 UT				
Well Tag	POD	Number	Q64 Q	Q16 Q4	Sec	Tws	Rng	Х	Y	
20E6C	C 04	4537 POD1	4	4 4	31	258	33E	631847	3550243 🌍	
Driller Lic	ense:	1706	Driller (Compai	ıy:	EL	TE DRI	LLERS CO	RPORATION	
Driller Na	me:	WALLACE, BR	YCE J.LEE.N	ER						
Drill Start Date: 06/11/2021		Drill Fi	nish Da	te:	0	6/12/202	21 Plu	g Date:		
Log File Date: 06/21/2021 Pump Type:			PCW R	cv Date	:		Sou	Source:		
			Pipe Dis	Pipe Discharge Size:					Estimated Yield	
Casing Size: 4.00			Depth V	Vell:		500 feet Dept			oth Water:	280 feet
X	Wate	er Bearing Strati	fications:	Te	op I	Botton	Descr	ription		
				22	20	340) Sands	stone/Gravel	Conglomerate	
x Casing Perfo			forations:	Т	op H	Bottom				
				30	00	500)			

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1/29/23 10:04 AM

POINT OF DIVERSION SUMMARY

APPENDIX E



Received by OCD: 3/27/2023 9:45:48 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701 Generated 2/22/2023 7:58:17 AM

JOB DESCRIPTION

Red Hills Unit #2H SDG NUMBER Lea Co, NM

JOB NUMBER

880-24755-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





Received by OCD: 3/27/2023 9:45:48 AM

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 2/22/2023 7:58:17 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 52 of 103

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QC Sample Results	21
QC Association Summary	27
Lab Chronicle	31
Certification Summary	36
Method Summary	37
Sample Summary	38
Chain of Custody	39
Receipt Checklists	41

serveu by GCI	D: 3/27/2023 9:45:48 AM Page 53	0 10
	Definitions/Glossary	
Client: Tetra Te		
Project/Site: R	Red Hills Unit #2H SDG: Lea Co, 1	NM
Qualifiers		/
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	A Contraction of the second	
Qualifier	Qualifier Description	_ /
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	ſ
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	<u> </u>
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	1
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac		1
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number

Method Quantitation Limit MQL NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

- Practical Quantitation Limit PQL
- PRES Presumptive

QC Quality Control RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Midland

4

Job ID: 880-24755-1 SDG: Lea Co, NM

Job ID: 880-24755-1

Client: Tetra Tech, Inc.

Laboratory: Eurofins Midland

Project/Site: Red Hills Unit #2H

Narrative

Job Narrative 880-24755-1

Receipt

The samples were received on 2/15/2023 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-24755-1), H-2 (0-1') (880-24755-2), H-3 (0-1') (880-24755-3), H-4 (0-1') (880-24755-4), S-1 (0-0.5') (880-24755-5), S-1 (0.5-1') (880-24755-6), S-1 (2') (880-24755-7), S-2 (0-0.5') (880-24755-8), S-2 (0.5-1') (880-24755-9), S-2 (2') (880-24755-10), S-3 (0-0.5') (880-24755-11), S-3 (0.5-1') (880-24755-12), S-3 (2') (880-24755-13), S-4 (0-0.5') (880-24755-14), S-4 (0.5-1') (880-24755-15) and S-4 (2') (880-24755-16).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-3 (0-0.5') (880-24755-11), S-3 (0.5-1') (880-24755-12), S-3 (2') (880-24755-13), (LCS 880-46606/1-A), (LCSD 880-46606/2-A), (880-24215-A-5-A MB), (880-24215-A-6-A MDLV), (880-24755-A-11-C MS) and (880-24755-A-11-D MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

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

HPLC/IC

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

Client: Tetra Tech, Inc.

Project/Site: Red Hills Unit #2H

Client Sample ID: H-1 (0-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-1

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 16:41	
Toluene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 16:41	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 16:41	
n-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/17/23 13:36	02/17/23 16:41	
o-Xylene	< 0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 16:41	
Xylenes, Total	< 0.00403		0.00403		mg/Kg		02/17/23 13:36	02/17/23 16:41	
······	0.00100	C C	0.00100				02,11,20 10.00	02, 11,20 10.11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	117		70 - 130				02/17/23 13:36	02/17/23 16:41	
1,4-Difluorobenzene (Surr)	85		70 - 130				02/17/23 13:36	02/17/23 16:41	
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/20/23 14:25	
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			02/20/23 15:10	
Method: SW846 8015B NM - Diese	· · ·		• •						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 21:26	
(GRO)-C6-C10	-50.0		50.0				00/47/00 00:00	00/47/00 04:00	
Diesel Range Organics (Over C10-C28)	<50.0	0	50.0		mg/Kg		02/17/23 09:00	02/17/23 21:26	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 21:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	108		70 - 130				02/17/23 09:00	02/17/23 21:26	
o-Terphenyl	112		70 - 130				02/17/23 09:00	02/17/23 21:26	
Method: EPA 300.0 - Anions, Ion C Analyte	• •	hy - Solubl Qualifier	e RL	мы	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	31.4		4.95		mg/Kg			02/21/23 03:34	
	01.4		1.00		ingrig				
lient Sample ID: H-2 (0-1')							Lab Sam	ple ID: 880-2	4755-
ate Collected: 02/14/23 00:00								Matri	ix: Soli
ate Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC))						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 17:07	
Toluene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 17:07	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 17:07	
n-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/17/23 13:36	02/17/23 17:07	
N 1	<0.00199		0.00199		mg/Kg		02/17/23 13:36	02/17/23 17:07	
o-Xylene	~0.00199	0	0.00199		mg/rxg		02/11/20 10.00	02/11/20 11.01	

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Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Limits

70 - 130

70 - 130

%Recovery Qualifier

112

81

Matrix: Solid

5

Client Sample Results

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-2

Client Sample ID: H-2 (0-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 22:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 22:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/17/23 09:00	02/17/23 22:31	1
o-Terphenyl	96		70 - 130				02/17/23 09:00	02/17/23 22:31	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.9		4.97		mg/Kg			02/21/23 03:39	1

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

Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Lab Sample ID: 880-24755-3 Matrix: Solid

-Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/17/23 13:36	02/17/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				02/17/23 13:36	02/17/23 17:33	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/17/23 13:36	02/17/23 17:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
	Desult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer							
Analyte Gasoline Range Organics	Result <49.8		49.8		mg/Kg		02/17/23 09:00	02/17/23 22:53	1
Gasoline Range Organics					mg/Kg		02/17/23 09:00	02/17/23 22:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			mg/Kg		02/17/23 09:00	02/17/23 22:53	1

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Job ID: 880-24755-1 SDG: Lea Co, NM

Matrix: Solid

5

Lab Sample ID: 880-24755-3

Client Sample ID: H-3 (0-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/17/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/17/23 09:00	02/17/23 22:53	1
	92 Chromatograp	hy - Solubl	70 - 130 e				02/17/23 09:00	02/17/23 22:53	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl Qualifier		MDL	Unit	D	02/17/23 09:00 Prepared	02/17/23 22:53 Analyzed	1 Dil Fac
Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp		e	MDL	Unit mg/Kg	D			1 1
Method: EPA 300.0 - Anions, Ion Analyte Chloride	Chromatograp Result		e	MDL		D	Prepared	Analyzed	1
o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: H-4 (0-1') vate Collected: 02/14/23 00:00	Chromatograp Result		e	MDL		<u> </u>	Prepared	Analyzed 02/21/23 03:56 ple ID: 880-2	1

Wethou. 30040 0021D - Volati	le Organic Comp	ounus (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/17/23 13:36	02/17/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/17/23 13:36	02/17/23 17:59	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/17/23 13:36	02/17/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/20/23 14:25	1

Method: SW846 8015 NM - Diesel R	ange Organi	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 23:14	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 23:14	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/17/23 09:00	02/17/23 23:14	1
o-Terphenyl	96		70 - 130				02/17/23 09:00	02/17/23 23:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.1		4.97		mg/Kg			02/21/23 04:02	1

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Client Sample ID: S-1 (0-0.5') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
m-Xylene & p-Xylene	0.00552		0.00402		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
Xylenes, Total	0.00552		0.00402		mg/Kg		02/17/23 13:36	02/17/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/17/23 13:36	02/17/23 18:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/17/23 13:36	02/17/23 18:26	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00552		0.00402		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.0		49.9		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies Analyte	Result	Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 23:37	1
Diesel Range Organics (Over C10-C28)	68.0		49.9		mg/Kg		02/17/23 09:00	02/17/23 23:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/17/23 09:00	02/17/23 23:37	1
p-Terphenyl	112		70 - 130				02/17/23 09:00	02/17/23 23:37	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900		50.0		mg/Kg			02/21/23 04:08	10
lient Sample ID: S-1 (0.5-1')						Lab Sam	ple ID: 880-2	4755-6
ate Collected: 02/14/23 00:00								Matri	x: Solid
ate Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/23 13:36	02/17/23 18:52	1

1,4-Difluorobenzene (Surr)	83		70 - 130		02/17/23 13:36	02/17/23 18:52	1
4-Bromofluorobenzene (Surr)	117		70 - 130		02/17/23 13:36	02/17/23 18:52	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	02/17/23 13:36	02/17/23 18:52	1
o-Xylene	<0.00200		0.00200	mg/Kg	02/17/23 13:36	02/17/23 18:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	02/17/23 13:36	02/17/23 18:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	02/17/23 13:36	02/17/23 18:52	1
Toluene	<0.00200	U	0.00200	mg/Kg	02/17/23 13:36	02/17/23 18:52	1
Benzene	<0.00200	U	0.00200	mg/Kg	02/17/23 13:36	02/17/23 18:52	1

Eurofins Midland

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Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-5

Matrix: Solid

5

Matrix: Solid

5

Client Sample Results

Job ID: 880-24755-1 SDG: Lea Co, NM

Client Sample ID: S-1 (0.5-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 23:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 23:59	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/17/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				02/17/23 09:00	02/17/23 23:59	1
o-Terphenyl	105		70 - 130				02/17/23 09:00	02/17/23 23:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		24.8		mg/Kg			02/21/23 04:13	5

Client Sample ID: S-1 (2')

Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Lab Sample ID: 880-24755-7 Matrix: Solid

-Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/17/23 13:36	02/17/23 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				02/17/23 13:36	02/17/23 19:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/17/23 13:36	02/17/23 19:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte							00/17/00 00 00	02/18/23 00:21	
•	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/10/23 00.21	1
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/16/23 00.21	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0 50.0		mg/Kg mg/Kg		02/17/23 09:00	02/18/23 00:21	1

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Lea Co, NM Lab Sample ID: 880-24755-6

Job ID: 880-24755-1 SDG: Lea Co, NM

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-24755-7

Client Sample ID: S-1 (2') Date Collected: 02/14/23 00:00

Project/Site: Red Hills Unit #2H

Date Received: 02/15/23 10:11

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/17/23 09:00	02/18/23 00:21	1
o-Terphenyl	102		70 - 130				02/17/23 09:00	02/18/23 00:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		4.96		mg/Kg			02/21/23 04:19	1

Client Sample ID: S-2 (0-0.5')

Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000192	U	0.0000019		mg/Kg		02/17/23 13:36	02/17/23 19:44	1
			2						
Toluene	<0.0000192	U	0.0000019		mg/Kg		02/17/23 13:36	02/17/23 19:44	1
			2						
Ethylbenzene	<0.00000192	U	0.0000019		mg/Kg		02/17/23 13:36	02/17/23 19:44	1
			2						
m-Xylene & p-Xylene	<0.0000384	U	0.000038		mg/Kg		02/17/23 13:36	02/17/23 19:44	1
			4						
o-Xylene	<0.0000192	U	0.0000019		mg/Kg		02/17/23 13:36	02/17/23 19:44	1
Vulance Total	<0.00000384		2		malla		02/17/23 13:36	02/17/23 19:44	1
Xylenes, Total	<0.00000364	0	0.000038		mg/Kg		02/17/23 13:30	02/17/23 19.44	1
			4						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				02/17/23 13:36	02/17/23 19:44	1
1,4-Difluorobenzene (Surr)	78		70 - 130				02/17/23 13:36	02/17/23 19:44	1
Method: TAL SOP Total BTEX	(- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0000384	U	0.000038		mg/Kg			02/20/23 14:25	1
			4						
Method: SW846 8015 NM - Di	esel Range Organ	ics (DRO) (GC)						
						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 00:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 00:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				02/17/23 09:00	02/18/23 00:43	1
o-Terphenyl	112		70 - 130				02/17/23 09:00	02/18/23 00:43	1

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Client Sample Results

Job ID: 880-2475	55-1
SDG: Lea Co,	NM

Lab Sample ID: 880-24755-8

Client Sample ID: S-2 (0-0.5') Date Collected: 02/14/23 00:00

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

-	-								
Method: EPA 300.0 - Anions, Ion Analyte		hy - Solubl Qualifier	e RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	6240		49.8		mg/Kg			02/21/23 04:24	10
Client Sample ID: S-2 (0.5-1)	')						Lab Sam	ple ID: 880-2	4755-9
Date Collected: 02/14/23 00:00	,						Lub Oum		x: Solid
Date Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile	Organia Comp	oundo (CC)							
Analyte		Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202		0.00202		mg/Kg		02/17/23 13:36	02/17/23 20:10	Dirta
Toluene	< 0.00202		0.00202				02/17/23 13:36	02/17/23 20:10	
					mg/Kg				
Ethylbenzene	< 0.00202		0.00202		mg/Kg		02/17/23 13:36	02/17/23 20:10	
m-Xylene & p-Xylene	<0.00404		0.00404		mg/Kg		02/17/23 13:36	02/17/23 20:10	
o-Xylene	<0.00202		0.00202		mg/Kg		02/17/23 13:36	02/17/23 20:10	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/17/23 13:36	02/17/23 20:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	125		70 _ 130				02/17/23 13:36	02/17/23 20:10	
1,4-Difluorobenzene (Surr)	92		70 - 130				02/17/23 13:36	02/17/23 20:10	
Analyte Total BTEX	<0.00404		RL 0.00404	MDL	Unit mg/Kg	<u> </u>	Prepared	Analyzed 02/20/23 14:25	Dil Fa
Method: SW846 8015 NM - Diese					1114	-	Descented	A	D!! E-
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			02/20/23 15:10	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 01:06	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 01:06	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 01:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	87		70 - 130				02/17/23 09:00	02/18/23 01:06	
o-Terphenyl	96		70 - 130				02/17/23 09:00	02/18/23 01:06	
Method: EPA 300.0 - Anions, Ion	Chromatogram	hy - Solubl	<u>_</u>						
Analyte	• •	Qualifier	RL	мп	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1640		25.0		mg/Kg	— <u>-</u>		02/21/23 04:41	
-	1010								
Client Sample ID: S-2 (2')							Lab Samp	le ID: 880-24	
oate Collected: 02/14/23 00:00								Matri	x: Solid
ate Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 20:37	
Toluene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 20:37	

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02/17/23 20:37

02/17/23 13:36

Ethylbenzene

0.00198

mg/Kg

<0.00198 U

1

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Client Sample ID: S-2 (2') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/17/23 13:36	02/17/23 20:37	
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/17/23 13:36	02/17/23 20:37	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/17/23 13:36	02/17/23 20:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				02/17/23 13:36	02/17/23 20:37	
1,4-Difluorobenzene (Surr)	88		70 - 130				02/17/23 13:36	02/17/23 20:37	
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/20/23 14:25	
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	
Method: SW846 8015B NM - Diese									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 01:28	
GRO)-C6-C10	-10.0		40.0		·····		00/47/00 00:00	00/40/00 04:00	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 01:28	
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 01:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130				02/17/23 09:00	02/18/23 01:28	
o-Terphenyl	106		70 - 130				02/17/23 09:00	02/18/23 01:28	
Method: EPA 300.0 - Anions, Ion (Chromatogram	hy - Solubl	•						
Analyte		Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	165	Quaimer	4.97		mg/Kg			02/21/23 04:47	
			4.97		ilig/itg				
lient Sample ID: S-3 (0-0.5') ate Collected: 02/14/23 00:00							Lab Samp	le ID: 880-24	755-1 x: Soli
ate Received: 02/15/23 10:11								Wall	x: 501
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		02/17/23 14:40	02/18/23 02:12	
Toluene	<0.00202		0.00202		mg/Kg		02/17/23 14:40	02/18/23 02:12	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/17/23 14:40	02/18/23 02:12	
n-Xylene & p-Xylene	<0.00403		0.00403		mg/Kg		02/17/23 14:40	02/18/23 02:12	
	< 0.00202		0.00202		mg/Kg		02/17/23 14:40	02/18/23 02:12	
Kylenes, Total	< 0.00403		0.00403		mg/Kg		02/17/23 14:40	02/18/23 02:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				02/17/23 14:40	02/18/23 02:12	

	Method: TAL SOP Total BTEX - Tota	al BIEX Calc	culation						
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 14:09	1

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Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-10 Matrix: Solid

Released to Imaging: 4/27/2023 3:33:49 PM

Job ID: 880-24755-1 SDG: Lea Co, NM

Client Sample ID: S-3 (0-0.5')

Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	
Method: SW846 8015B NM - Dies			· · ·			_	- ·		
Analyte		Qualifier		MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 02:11	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9		49.9		mg/Kg		02/17/23 09:00	02/18/23 02:11	
C10-C28)	\$40.0	0	45.5		iiig/itg		02/11/23 03:00	02/10/23 02.11	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 02:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				02/17/23 09:00	02/18/23 02:11	
o-Terphenyl	113		70 - 130				02/17/23 09:00	02/18/23 02:11	
Method: EPA 300.0 - Anions, Ion	Chromatogram	ohv - Solub	le						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3430		50.4		mg/Kg			02/21/23 05:04	1
					5.5				
lient Sample ID: S-3 (0.5-1)	')						Lab Samp	le ID: 880-24	755-1
ate Collected: 02/14/23 00:00								Matri	x: Soli
ate Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 02:32	
Toluene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 02:32	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 02:32	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/17/23 14:40	02/18/23 02:32	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 02:32	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/17/23 14:40	02/18/23 02:32	
		•					Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Limits				<u> </u>		
-	% <i>Recovery</i>	Qualifier S1+					02/17/23 14:40	02/18/23 02:32	
4-Bromofluorobenzene (Surr)		-					02/17/23 14:40 02/17/23 14:40		
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	137 105	S1+	70 - 130					02/18/23 02:32	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T	137 105 Total BTEX Cal	S1+	70 - 130 70 - 130	MDI	Unit	D	02/17/23 14:40	02/18/23 02:32 02/18/23 02:32	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte	137 105 Total BTEX Cale Result	S1+ Culation Qualifier	70 - 130 70 - 130 RL	MDL	-	D		02/18/23 02:32 02/18/23 02:32 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte	137 105 Total BTEX Cal	S1+ Culation Qualifier	70 - 130 70 - 130	MDL	<mark>Unit</mark> mg/Kg	<u>D</u>	02/17/23 14:40	02/18/23 02:32 02/18/23 02:32	Dil Fa
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese	137 105 Total BTEX Calo Result <0.00398 I Range Organ	S1+ Qualifier U ics (DRO) (70 - 130 70 - 130 70 - 130 RL 0.00398		mg/Kg		02/17/23 14:40 Prepared	02/18/23 02:32 02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	137 105 Total BTEX Calo Result <0.00398 I Range Organ Result	S1+ Qualifier U ics (DRO) (Qualifier	70 - 130 70 - 130 RL 0.00398 GC) RL		mg/Kg Unit	D	02/17/23 14:40	02/18/23 02:32 02/18/23 02:32 02/18/23 02:32 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	137 105 Total BTEX Calo Result <0.00398 I Range Organ	S1+ Qualifier U ics (DRO) (Qualifier	70 - 130 70 - 130 70 - 130 RL 0.00398		mg/Kg		02/17/23 14:40 Prepared	02/18/23 02:32 02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese	137 105 Total BTEX Cald Result <0.00398 I Range Organ Result <49.9	S1+ Qualifier U ics (DRO) (Qualifier U	70 - 130 70 - 130 70 - 0.00398 GC) RL 49.9		mg/Kg Unit		02/17/23 14:40 Prepared	02/18/23 02:32 02/18/23 02:32 02/18/23 02:32 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Total BTEX Cald Total BTEX Cald Cotal BTEX Cald Result <a href="https://www.coloredication-coloredicatio-coloredicatio-col</td><td>S1+
Qualifier
U
ics (DRO) (
Qualifier
U</td><td>70 - 130 70 - 130 70 - 0.00398 GC) RL 49.9</td><td>MDL</td><td>mg/Kg
Unit</td><td></td><td>02/17/23 14:40 Prepared</td><td>02/18/23 02:32
02/18/23 02:32
02/18/23 02:32
Analyzed</td><td>Dil Fa
Dil Fa</td></tr><tr><td>4-Bromofluorobenzene (Surr)
1,4-Difluorobenzene (Surr)
Method: TAL SOP Total BTEX - T
Analyte
Total BTEX
Method: SW846 8015 NM - Diese
Analyte
Total TPH
Method: SW846 8015B NM - Diese
Analyte
Gasoline Range Organics</td><td>Total BTEX Cald
Total BTEX Cald
Cotal BTEX Cald
Result
<a href=" https:="" td="" www.coloredication-coloredicatio-coloredicatio-col<=""><td>S1+ Qualifier U ics (DRO) (Qualifier U nnics (DRO) Qualifier</td><td>GC) (GC) 70 - 130 RL 0.00398 ML 49.9</td><td>MDL</td><td>mg/Kg Unit mg/Kg</td><td> D</td><td>02/17/23 14:40 Prepared Prepared</td><td>02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10</td><td>Dil Fa Dil Fa</td>	S1+ Qualifier U ics (DRO) (Qualifier U nnics (DRO) Qualifier	GC) (GC) 70 - 130 RL 0.00398 ML 49.9	MDL	mg/Kg Unit mg/Kg	D	02/17/23 14:40 Prepared Prepared	02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10	Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	137 105 Fotal BTEX Cald Result <0.00398	S1+ Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U	70 - 130 70 - 130 70 - 130 RL 0.00398 GC) RL 49.9 (GC) RL 49.9	MDL	Unit mg/Kg Unit mg/Kg	D	02/17/23 14:40 Prepared Prepared 02/17/23 09:00	02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10 Analyzed 02/18/23 02:33	Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	interference in the second sec	S1+ Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U	70 - 130 70 - 130 70 - 130 RL 0.00398 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	D	02/17/23 14:40 Prepared Prepared Prepared	02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10 Analyzed	Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	137 105 Fotal BTEX Cald Result <0.00398	S1+ Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U U U	70 - 130 70 - 130 70 - 130 RL 0.00398 GC) RL 49.9 (GC) RL 49.9	MDL	Unit mg/Kg Unit mg/Kg	D	02/17/23 14:40 Prepared Prepared 02/17/23 09:00	02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10 Analyzed 02/18/23 02:33	Dil Fa Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	137 105 Fotal BTEX Cald Result <0.00398	S1+ Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U U U U	70 - 130 70 - 130 70 - 130 RL 0.00398 GC) RL 49.9 (GC) RL 49.9 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	02/17/23 14:40 Prepared Prepared 02/17/23 09:00 02/17/23 09:00	02/18/23 02:32 02/18/23 02:32 Analyzed 02/20/23 14:09 Analyzed 02/20/23 15:10 Analyzed 02/18/23 02:33 02/18/23 02:33	

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Lab Sample ID: 880-24755-11 Matrix: Solid 5

		Clier	nt Sample R	esults	5				
Client: Tetra Tech, Inc.			•					Job ID: 880-2	24755-1
Project/Site: Red Hills Unit #2H								SDG: Lea	Co, NM
Client Sample ID: S-3 (0.5-1	1')						Lab Samp	le ID: 880-24	755-12
Date Collected: 02/14/23 00:00									x: Solic
Date Received: 02/15/23 10:11									
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)) (GC) (Continue	ed)					
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	99		70 - 130				02/17/23 09:00	02/18/23 02:33	
Mothod: EDA 200.0 Aniona los	- Chromotogram	by Colub							
Method: EPA 300.0 - Anions, Ior Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1330		25.0		mg/Kg			02/21/23 05:10	
									755 44
Client Sample ID: S-3 (2')							Lab Samp	le ID: 880-24	
Date Collected: 02/14/23 00:00								Matri	x: Solic
Date Received: 02/15/23 10:11									
Method: SW846 8021B - Volatile	organic Comp	ounds (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 02:52	
Toluene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 02:52	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 02:52	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/17/23 14:40	02/18/23 02:52	
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 02:52	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/17/23 14:40	02/18/23 02:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				02/17/23 14:40	02/18/23 02:52	
1,4-Difluorobenzene (Surr)	108		70 - 130				02/17/23 14:40	02/18/23 02:52	1
– Method: TAL SOP Total BTEX - ⁻	Total BTEX Cale	sulation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/20/23 14:09	1
- Mothody SW946 9015 NM Diog	ol Bongo Orgon								
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			50.0		mg/Kg			02/20/23 15:10	
	\$00.0	0	50.0		ilig/itg			02/20/23 13:10	I
Method: SW846 8015B NM - Die									
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 02:55	
(GRO)-C6-C10 Disasel Banga Organiza (Over	~=0 0		50.0		ma/Ka		02/17/22 00.00	02/18/22 02.55	
Diesel Range Organics (Over C10-C28)	<50.0	0	50.0		mg/Kg		02/17/23 09:00	02/18/23 02:55	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 02:55	
Surrogato	% Passavers	Qualifier	Limito				Bronorod	Analyzad	
		Quanner							Dil Fa
Surrogate 1-Chlorooctane o-Terphenyl	% Recovery 86 94	Qualifier	<u>Limits</u> 70 - 130 70 - 130				Prepared 02/17/23 09:00 02/17/23 09:00	Analyzed 02/18/23 02:55 02/18/23 02:55	Dil

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedChloride33.64.95mg/Kg02/21/23 05:15

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Dil Fac

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Client Sample ID: S-4 (0-0.5') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
Toluene	0.122		0.0398		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
m-Xylene & p-Xylene	2.44		0.0795		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
o-Xylene	0.768		0.0398		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
Xylenes, Total	3.21		0.0795		mg/Kg		02/17/23 13:36	02/18/23 02:22	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				02/17/23 13:36	02/18/23 02:22	20
1,4-Difluorobenzene (Surr)	78		70 - 130				02/17/23 13:36	02/18/23 02:22	20
Method: TAL SOP Total BTEX - Tota	al BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.33		0.0795		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Diesel R	ange Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2040		49.8		mg/Kg			02/20/23 15:10	1
		nics (DRO)			mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Diesel	Range Orga	<mark>nics (DRO)</mark> Qualifier		MDL	mg/Kg Unit	D	Prepared	02/20/23 15:10 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics	Range Orga		(GC)	MDL		<u>D</u>	Prepared 02/17/23 09:00		
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Orga Result		(GC) RL	MDL	Unit	<u> </u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Range Orga Result 242		(GC) 	MDL	Unit mg/Kg	<u> </u>	02/17/23 09:00	Analyzed 02/18/23 03:17	Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Range Orga Result 242 1630		(GC) <u>RL</u> 49.8 49.8	MDL	Unit mg/Kg mg/Kg	D	02/17/23 09:00 02/17/23 09:00	Analyzed 02/18/23 03:17 02/18/23 03:17	Dil Fac
Total TPH Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Range Orga Result 242 1630 164	Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/17/23 09:00 02/17/23 09:00 02/17/23 09:00	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17	Dil Fac 1 1
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Range Orga Result 242 1630 164 %Recovery	Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8 Limits	MDL	Unit mg/Kg mg/Kg	<u> </u>	02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 Analyzed	Dil Fac 1 1 1 Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Range Orga Result 242 1630 164 %Recovery 103 103	Qualifier Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared 02/17/23 09:00	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17	Dil Fac 1 1 1 <i>Dil Fac</i> 1
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Ch	Range Orga Result 242 1630 164 %Recovery 103 103 103	Qualifier Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared 02/17/23 09:00	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17	Dil Fac 1 1 1 <i>Dil Fac</i> 1
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Ch Analyte	Range Orga Result 242 1630 164 %Recovery 103 103 103	Qualifier Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130		Unit mg/Kg mg/Kg mg/Kg		02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17	Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Range Orga Result 242 1630 164 %Recovery 103 103 nromatograp Result	Qualifier Qualifier	(GC) <u>RL</u> 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130 RL		Unit mg/Kg mg/Kg Mg/Kg		02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared 02/17/23 09:00 02/17/23 09:00 Prepared	Analyzed 02/18/23 03:17 02/18/23 03:17 02/18/23 03:17 Analyzed Analyzed	Dil Fac

Method: SW846 8021B - Volati	• •		·						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/17/23 13:36	02/17/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				02/17/23 13:36	02/17/23 23:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130				02/17/23 13:36	02/17/23 23:41	1

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Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-14

Matrix: Solid

Released to Imaging: 4/27/2023 3:33:49 PM

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-15

Client Sample ID: S-4 (0.5-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/20/23 14:25	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		50.0		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 03:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	130		50.0		mg/Kg		02/17/23 09:00	02/18/23 03:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/17/23 09:00	02/18/23 03:39	1
o-Terphenyl	95		70 - 130				02/17/23 09:00	02/18/23 03:39	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		4.97		mg/Kg			02/21/23 05:27	1

Client Sample ID: S-4 (2')

Date Collected: 02/14/23 00:00

Lab Sample ID: 880-24755-16 Matrix: Solid

Date Received: 02/15/23 10:11

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/17/23 13:36	02/18/23 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				02/17/23 13:36	02/18/23 00:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/17/23 13:36	02/18/23 00:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 02/20/23 14:25 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total TPH <49.9 U 02/20/23 15:10 49.9 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U 49.9 02/17/23 09:00 02/18/23 04:00 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10

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02/18/23 04:00

02/17/23 09:00

6 - - -) -

Matrix: Solid

5

Diesel Range Organics (Over

C10-C28)

49.9

mg/Kg

<49.9 U

1

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Client Sample ID: S-4 (2') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-16

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/17/23 09:00	02/18/23 04:00	1
o-Terphenyl	92		70 - 130				02/17/23 09:00	02/18/23 04:00	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.95		mg/Kg			02/21/23 05:32	1

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Released to Imaging: 4/27/2023 3:33:49 PM

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-24755-1 H-1 (0-1') 117 85 880-24755-1 MS H-1 (0-1') 109 95 880-24755-1 MSD H-1 (0-1') 115 97 880-24755-2 81 H-2 (0-1') 112 880-24755-3 88 H-3 (0-1') 119 880-24755-4 H-4 (0-1') 84 116 880-24755-5 S-1 (0-0.5') 85 121 880-24755-6 S-1 (0.5-1') 117 83 880-24755-7 S-1 (2') 122 92 880-24755-8 S-2 (0-0.5') 120 78 880-24755-9 S-2 (0.5-1') 125 92 880-24755-10 88 S-2 (2') 116 880-24755-11 S-3 (0-0.5') 136 S1+ 104 880-24755-11 MS 132 S1+ 106 S-3 (0-0.5') 880-24755-11 MSD S-3 (0-0.5') 132 S1+ 97 880-24755-12 S-3 (0.5-1') 137 S1+ 105 880-24755-13 S-3 (2') 140 S1+ 108 880-24755-14 S-4 (0-0.5') 135 S1+ 78 880-24755-15 S-4 (0.5-1') 125 90 880-24755-16 S-4 (2') 120 86 LCS 880-46604/1-A Lab Control Sample 113 88 LCS 880-46606/1-A Lab Control Sample 131 S1+ 105 LCSD 880-46604/2-A Lab Control Sample Dup 108 86 LCSD 880-46606/2-A Lab Control Sample Dup 131 S1+ 102 MB 880-46604/5-A Method Blank 77 86 MB 880-46606/5-A Method Blank 127 100 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1001 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-24755-1 H-1 (0-1') 108 112 880-24755-1 MS H-1 (0-1') 105 101 880-24755-1 MSD H-1 (0-1') 110 105 880-24755-2 H-2 (0-1') 93 96 880-24755-3 H-3 (0-1') 88 92 880-24755-4 H-4 (0-1') 89 96 880-24755-5 S-1 (0-0.5') 104 112 880-24755-6 S-1 (0.5-1') 95 105 880-24755-7 S-1 (2') 92 102 880-24755-8 S-2 (0-0.5') 100 112 880-24755-9 S-2 (0.5-1') 87 96 880-24755-10 S-2 (2') 94 106 880-24755-11 S-3 (0-0.5') 105 113

Job ID: 880-24755-1 SDG: Lea Co, NM

Prep Type: Total/NA

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-24755-1 Project/Site: Red Hills Unit #2H SDG: Lea Co, NM Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 Lab Sample ID Client Sample ID (70-130) (70-130)

Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24755-12	S-3 (0.5-1')	89	99	
880-24755-13	S-3 (2')	86	94	
880-24755-14	S-4 (0-0.5')	103	103	
380-24755-15	S-4 (0.5-1')	85	95	
380-24755-16	S-4 (2')	83	92	
LCS 880-46578/2-A	Lab Control Sample	103	115	
LCSD 880-46578/3-A	Lab Control Sample Dup	123	136 S1+	
MB 880-46578/1-A	Method Blank	94	111	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46604/5-A Matrix: Solid Analysis Batch: 46566							Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Fotal/NA
Analyte	MB Result		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							02/17/23 13:36		
Benzene	<0.00200		0.00200		mg/Kg			02/17/23 15:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/23 13:36	02/17/23 15:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/23 13:36	02/17/23 15:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/23 13:36	02/17/23 15:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/23 13:36	02/17/23 15:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/23 13:36	02/17/23 15:57	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				02/17/23 13:36	02/17/23 15:57	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/17/23 13:36	02/17/23 15:57	1
Lab Sample ID: LCS 880-46604/1-A Matrix: Solid Analysis Batch: 46566						C	lient Sample I	D: Lab Control Prep Type: ∃ Prep Batch	Fotal/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1261		mg/Kg		126	70 - 130	
Toluene	0.100	0.1249		mg/Kg		125	70 - 130	
Ethylbenzene	0.100	0.1254		mg/Kg		125	70 - 130	
m-Xylene & p-Xylene	0.200	0.2510		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-46604/2-A

Matrix: Solid

						Prep	Batch:	46604
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1167		mg/Kg		117	70 - 130	8	35
0.100	0.1127		mg/Kg		113	70 - 130	10	35
0.100	0.1062		mg/Kg		106	70 - 130	17	35
0.200	0.2150		mg/Kg		107	70 - 130	15	35
0.100	0.1027		mg/Kg		103	70 - 130	14	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1167 0.100 0.1127 0.100 0.1062 0.200 0.2150	Added Result Qualifier 0.100 0.1167 - 0.100 0.1127 - 0.100 0.1062 - 0.200 0.2150 -	Added Result Qualifier Unit 0.100 0.1167 mg/Kg 0.100 0.1127 mg/Kg 0.100 0.1062 mg/Kg 0.200 0.2150 mg/Kg	Added Result Qualifier Unit D 0.100 0.1167 mg/Kg 0.100 0.1127 mg/Kg 0.100 0.1062 mg/Kg 0.200 0.2150 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1167 mg/Kg 117 0.100 0.1127 mg/Kg 113 0.100 0.1062 mg/Kg 106 0.200 0.2150 mg/Kg 107	Spike LCSD LCSD %Rec Added Result Qualifier Unit D %Rec Limits 0.100 0.1167 mg/Kg 117 70 - 130 0.100 0.1127 mg/Kg 113 70 - 130 0.100 0.1062 mg/Kg 106 70 - 130 0.200 0.2150 mg/Kg 107 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1167 mg/Kg 117 70 - 130 8 0.100 0.1127 mg/Kg 113 70 - 130 10 0.100 0.1062 mg/Kg 106 70 - 130 17 0.200 0.2150 mg/Kg 107 70 - 130 15

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-24755-1 MS Matrix: Solid

Analysis Batch: 46566

Analysis Batch: 46566									Pre	o Batch: 46604
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U	0.101	0.1123		mg/Kg		111	70 - 130	
Toluene	<0.00202	U	0.101	0.1062		mg/Kg		105	70 - 130	

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

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

5 6 7

Job ID: 880-24755-1

SDG: Lea Co, NM

MS MS

0.1016

0.2016

0.09598

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

%Rec

101

100

95

D

Spike

Added

0.101

0.202

0.101

Limits

70 - 130

70 - 130

Lab Sample ID: 880-24755-1 MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 46566

Sample Sample

<0.00202

<0.00403 U

<0.00202 U

109

95

%Recovery

Result Qualifier

U

MS MS

Qualifier

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

		ype: To Batch:	
	%Rec	Datch.	40004
ec	Limits		
01	70 - 130		
00	70 - 130		
95	70 - 130		
CII	ent Sample		(0.1)
Cile			· ·
		ype: To	
	Prep	Batch:	46604
	%Rec		RPD
ec	Limits	RPD	Limit
47	70 400		25

Client Sample ID: Method Blank

02/18/23 01:43

02/18/23 01:43

Client Sample ID: Lab Control Sample

02/17/23 14:40

02/17/23 14:40

Prep Type: Total/NA

Prep Batch: 46606

Lab Sample ID: 880-24755-1 MSD Matrix: Solid

Analysis Batch: 46566

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Daten. 40000									i ieb	Daten.	40004	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U	0.0996	0.1164		mg/Kg		117	70 - 130	4	35	
Toluene	<0.00202	U	0.0996	0.1051		mg/Kg		106	70 - 130	1	35	
Ethylbenzene	<0.00202	U	0.0996	0.1059		mg/Kg		106	70 - 130	4	35	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.2096		mg/Kg		105	70 - 130	4	35	
o-Xylene	<0.00202	U	0.0996	0.1008		mg/Kg		101	70 - 130	5	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-46606/5-A Matrix: Solid Analysis Batch: 46567

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

127

1,4-Difluorobenzene (Surr)	100
_ Lab Sample ID: LCS 880-46606/1-A	

Matrix: Solid Analysis Batch: 46567

4-Bromofluorobenzene (Surr)

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1185		mg/Kg		118	70 - 130	
Toluene	0.100	0.1111		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1141		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2420		mg/Kg		121	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Prep Batch: 46606

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Lab Sample ID: LCS 880-46606/1-A

QC Sample Results

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Matrix: Solid

Analysis Batch: 46567

Job ID: 880-24755-1 SDG: Lea Co, NM

Prep Type: Total/NA

Prep Batch: 46606

Client Sample ID: Lab Control Sample

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

Analysis Batch: 46567											
			Spike		LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.1184		mg/Kg		118	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)		S1+	70 - 130								
1,4-Difluorobenzene (Surr)	105		70 _ 130								
Lab Sample ID: LCSD 880-4						Clie	nt Com		Lab Contro	l Comol	. D
Matrix: Solid	10000/2-A					Cile	ni San	ipie iD. i		ype: To	
Analysis Batch: 46567										Batch:	
Analysis Batch. 40307			Spike	LCSD	LCSD				%Rec	Datch.	RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1254	Quanner	mg/Kg		125	70 - 130	6	35
Toluene			0.100	0.1204		mg/Kg		120	70 - 130 70 - 130	7	35
Ethylbenzene			0.100	0.1195		mg/Kg		120	70 - 130 70 - 130	4	35
			0.100	0.1190				126	70 - 130	4	
m-Xylene & p-Xylene			0.200	0.2526		mg/Kg		120	70 - 130 70 - 130	4	35 35
o-Xylene			0.100	0.1229		mg/Kg		125	70 - 130	4	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
		S1+	70 - 130								
4-Bromofluorobenzene (Surr)	131	3/+	10 - 130								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid	102	51+	70 - 130 70 - 130					Clien		Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1	102 11 MS		70 - 130	MS	MS			Clien	Prep T Prep		tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567	102 11 MS Sample	Sample	70 - 130 Spike		MS Qualifier	Unit	D		Prep T Prep %Rec	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte	102 11 MS Sample Result	Sample Qualifier	70 - 130 Spike Added	Result	MS Qualifier	Unit	D	%Rec	Prep 1 Prep %Rec Limits	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene	102 11 MS 	Sample Qualifier U	70 - 130 Spike Added 0.101	Result 0.1268		mg/Kg	<u> </u>	%Rec	Prep 1 Prep %Rec Limits 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene	102 11 MS 	Sample Qualifier U U	70 - 130 Spike Added 0.101 0.101	Result 0.1268 0.1202		mg/Kg mg/Kg	D	%Rec 126 119	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202	Sample Qualifier U U U	70 - 130 Spike Added 0.101 0.101 0.101	Result 0.1268 0.1202 0.1192		mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 126 119 118	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <0.00202	Sample Qualifier U U U	70 - 130 Spike Added 0.101 0.101 0.101 0.202	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 126 119 118 125	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202	Sample Qualifier U U U	70 - 130 Spike Added 0.101 0.101 0.101	Result 0.1268 0.1202 0.1192		mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 126 119 118	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202	Sample Qualifier U U U	70 - 130 Spike Added 0.101 0.101 0.101 0.202	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 126 119 118 125	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202	Sample Qualifier U U U U U U U	70 - 130 Spike Added 0.101 0.101 0.101 0.202	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 126 119 118 125	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 MS %Recovery	Sample Qualifier U U U U U U U	Spike Added 0.101 0.101 0.101 0.202 0.101	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 126 119 118 125	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 MS %Recovery	Sample Qualifier U U U U U U MS Qualifier	70 - 130 Spike Added 0.101 0.101 0.101 0.202 0.101 Limits	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 126 119 118 125	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	102 11 MS Sample Result <0.00202 <0.00202<td>Sample Qualifier U U U U U U MS Qualifier</td><td>70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130</td><td>Result 0.1268 0.1202 0.1192 0.2517</td><td></td><td>mg/Kg mg/Kg mg/Kg mg/Kg</td><td> <u>D</u></td><td>%Rec 126 119 118 125 122</td><td>Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130</td><td>Type: To Batch:</td><td>tal/NA 46606</td>	Sample Qualifier U U U U U U MS Qualifier	70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 126 119 118 125 122	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: To Batch:	tal/NA 46606
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1	102 11 MS Sample Result <0.00202 <0.00202<td>Sample Qualifier U U U U U U MS Qualifier</td><td>70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130</td><td>Result 0.1268 0.1202 0.1192 0.2517</td><td></td><td>mg/Kg mg/Kg mg/Kg mg/Kg</td><td><u> </u></td><td>%Rec 126 119 118 125 122</td><td>Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130</td><td>D: S-3 (</td><td>tal/NA 46606</td>	Sample Qualifier U U U U U U MS Qualifier	70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 126 119 118 125 122	Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	D: S-3 (tal/NA 46606
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid	102 11 MS Sample Result <0.00202 <0.00202<td>Sample Qualifier U U U U U U MS Qualifier</td><td>70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130</td><td>Result 0.1268 0.1202 0.1192 0.2517</td><td></td><td>mg/Kg mg/Kg mg/Kg mg/Kg</td><td><u> </u></td><td>%Rec 126 119 118 125 122</td><td>Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 170</td><td>D: S-3 (</td><td>tal/NA 46606 0-0.5') tal/NA</td>	Sample Qualifier U U U U U U MS Qualifier	70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.1268 0.1202 0.1192 0.2517		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 126 119 118 125 122	Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 170	D: S-3 (tal/NA 46606 0-0.5') tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 MS %Recovery 132 106 11 MSD	Sample Qualifier U U U U U U MS Qualifier	70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.1268 0.1202 0.1192 0.2517 0.1232		mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 126 119 118 125 122	Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 170	D: S-3 (0-0.5') tal/NA
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 <i>MS</i> <i>%Recovery</i> 132 106 11 MSD Sample	Sample Qualifier U U U U U MS Qualifier S1+	70 - 130 Spike Added 0.101 0.101 0.202 0.101 Limits 70 - 130 70 - 130	Result 0.1268 0.1202 0.1192 0.2517 0.1232	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 126 119 118 125 122	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	D: S-3 (0-0.5') tal/NA 46606 RPD
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 <i>MS</i> <i>%Recovery</i> 132 106 11 MSD Sample	Sample Qualifier U U U U U MS Qualifier S1+ Sample Qualifier	70 - 130 Spike Added 0.101 0.101 0.101 0.202	Result 0.1268 0.1202 0.1192 0.2517 0.1232	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 126 119 118 125 122	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	D: S-3 (Batch: D: S-3 (Batch:	0-0.5') tal/NA 46606 RPD Limit
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte	102 11 MS Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 MS %Recovery 132 106 11 MSD Sample Result	Sample Qualifier U U U U U MS Qualifier S1+	70 - 130 Spike Added 0.101 0.101 0.101 0.202	Result 0.1268 0.1202 0.1192 0.2517 0.1232	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 126 119 118 125 122 Clien	Prep T Prep %Rec Limits 70 - 130 70 - 190 70 - 130 70 - 130	D: S-3 (Batch: D: S-3 (Sype: Tot Batch: RPD	0-0.5') tal/NA 46606 RPD Limit 35
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene	102 11 MS Sample Result 0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <i>MS</i> <i>%Recovery</i> 132 106 11 MSD Sample Result <0.00202 	Sample Qualifier U U U U U MS Qualifier S1+ Sample Qualifier U U	70 - 130 Spike Added 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 Spike Added 0.0996	Result 0.1268 0.1202 0.1192 0.2517 0.1232	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg		%Rec 126 119 118 125 122 Clien %Rec 108	Prep T Prep %Rec Limits 70 - 130 70 - 130 %Rec Limits 70 - 130	D: S-3 (0 Batch: 4 D: S-3 (0 Fype: Tot Batch: 4 RPD 16	0-0.5') tal/NA 46606 RPD
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-24755-1 Matrix: Solid Analysis Batch: 46567 Analyte Benzene Toluene	102 11 MS Sample Result <	Sample Qualifier U U U U U U MS Qualifier S1+ Sample Qualifier U U	70 - 130 Spike Added 0.101 0.101 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 Spike Added 0.0996 0.0996	Result 0.1268 0.1202 0.1192 0.2517 0.1232 MSD Result 0.1080 0.1133	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 126 119 118 125 122 Clien %Rec 108 114	Prep T Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 %Rec Limits 70 - 130 70 - 130	D: S-3 ((ype: Tot D: S-3 ((ype: Tot Batch: 4 (<u>RPD</u> 16 6	0-0.5') tal/NA 46606 RPD Limit 35 35
Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Method: 8021B - Volatile C	organic Comp	ounds (0	C) (Continu	iea)									
Lab Sample ID: 880-24755-11 Matrix: Solid	MSD									Client	Sample ID Prep Ty		
Analysis Batch: 46567												Batch:	
		_											
•	MSD MS												
Surrogate	%Recovery Qu 132 S1-		Limits										
4-Bromofluorobenzene (Surr)		+	70 ₋ 130 70 ₋ 130										
1,4-Difluorobenzene (Surr)	97												
Method: 8015B NM - Diese	el Range Orga	nics (DF	RO) (GC)										
Lab Sample ID: MB 880-46578	8/1-A									Client Sa	ample ID: N	lethod	Blank
Matrix: Solid											Prep Ty	-	
Analysis Batch: 46558											Prep l	Batch:	46578
	ME	B MB											
Analyte		Qualifier	RL		MDL	Unit		D		repared	Analyze		Dil Fac
Gasoline Range Organics	<50.0) U	50.0			mg/Kg			02/1	7/23 09:00	02/17/23 2	0:20	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	N 11	50.0			mg/Kg			02/1	7/23 09:00	02/17/23 20	1.20	1
C10-C28)	<50.0	0	50.0			my/ry			02/1	1123 09.00	02/11/23 20	J.20	I
Oll Range Organics (Over C28-C36)	<50.0) U	50.0			mg/Kg			02/1	7/23 09:00	02/17/23 2	0:20	1
	МЕ	8 MB											
Surrogate	%Recovery		Limits							repared	Analyze		Dil Fac
1-Chlorooctane	94		70 - 130							7/23 09:00	02/17/23 2		1
o-Terphenyl	11:	1	70 - 130						02/1	7/23 09:00	02/17/23 2	0:20	1
Lab Sample ID: LCS 880-4657	8/2-A							C	lient	Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid											Prep Ty		
Analysis Batch: 46558												Batch:	
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	820.1			mg/Kg		_	82	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)			1000	884.2			mg/Kg			88	70 - 130		
	LCS LC	s											
Surrogate	%Recovery Qu	alifier	Limits										
1-Chlorooctane	103		70 - 130										
o-Terphenyl	115		70 - 130										
Lab Sample ID: LCSD 880-465	578/3-A						Cli	ient	Sam	ple ID: L	ab Control	Sampl	le Dup
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 46558											Prep l	Batch:	4657 8
			Spike	LCSD							%Rec		RPD
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	979.3			mg/Kg			98	70 - 130	18	20
(GRO)-C6-C10 Diesel Range Organics (Over			1000	1072			mg/Kg			107	70 - 130	19	20
C10-C28)			1000	1072			ing/ity			107	70 - 100	13	20
	LCSD LC	SD											
Surrogate	%Recovery Qu		Limits										
1-Chlorooctane	123		70 - 130										

Job ID: 880-24755-1

SDG: Lea Co, NM

o-Terphenyl

136 S1+

70 - 130

QC Sample Results

MS MS

MSD MSD

Qualifier

Result

1040

1021

1042

Result Qualifier

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

%Rec

100

100

104

Spike

Added

1000

1000

Limits 70 - 130

70 - 130

Spike

Added

1000

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Lab Sample ID: 880-24755-1 MS

Lab Sample ID: 880-24755-1 MSD

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 46558

Gasoline Range Organics

Analysis Batch: 46558

Gasoline Range Organics

Diesel Range Organics (Over

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

Sample Sample

<50.0 U

<50.0 U

105

101

%Recovery

MS MS

Sample Sample

<50.0 U

Result Qualifier

Qualifier

Result Qualifier

5
7
8
9

Client Sample ID: H-1 (0-1')	
Prep Type: Total/NA	1
Prep Batch: 46578	

%Rec

Limits

70 - 130

70 - 130

	1.00	Batom	
	%Rec		RPD
%Rec	Limits	RPD	Limit
102	70 - 130	2	20

4

20

70 - 130

Diesel Range Organics (Over	<50.0	U	1000	1084	mg/Kg
C10-C28)					
	MSD	MSD			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	110		70 - 130		
o-Terphenyl	105		70 - 130		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46407/1-A Matrix: Solid										Client S	Sample ID: M Prep Ty		
Analysis Batch: 46810											Fiebi	ype. S	oluble
Analysis Batch. 40010	МВ	мв											
Analyte		Qualifier		RL		MDL	Unit		D P	repared	Analyzed	i	Dil Fac
Chloride	<5.00	U		5.00			mg/Kg				02/21/23 02	:49	1
- Lab Sample ID: LCS 880-46407/2-A									Client	t Sample	ID: Lab Cor	trol S	ample
Matrix: Solid											Prep Ty	/pe: S	oluble
Analysis Batch: 46810													
-			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qual	ifier	Unit	D	%Rec	Limits		
Chloride			250		245.0			mg/Kg		98	90 _ 110		
Lab Sample ID: LCSD 880-46407/3-A								Cli	ient San	ple ID:	Lab Control	Sampl	e Dup
Matrix: Solid											Prep Ty	/pe: S	oluble
Analysis Batch: 46810													
			Spike		LCSD	LCS	C				%Rec		RPD
Analyte			Added		Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		245.5			mg/Kg		98	90 - 110	0	20

Eurofins Midland

Client Sample ID: H-1 (0-1') Prep Type: Total/NA Prep Batch: 46578

QC Sample Results

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H Job ID: 880-24755-1 SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-24755-8 MS Matrix: Solid								Clien	t Sample I Prep	D: S-2(Type: S	· ·
Analysis Batch: 46810											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	6240		2490	8890		mg/Kg		107	90 - 110		
Lab Sample ID: 880-24755-8 MSD								Clien	t Sample I	D: S-2((0-0.5')
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 46810											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	6240		2490	8899		mg/Kg		107	90 - 110	0	20

Eurofins Midland

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Job ID: 880-24755-1 SDG: Lea Co, NM

GC VOA

Analysis Batch: 46566

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-1	H-1 (0-1')	Total/NA	Solid	8021B	46604
880-24755-2	H-2 (0-1')	Total/NA	Solid	8021B	46604
880-24755-3	H-3 (0-1')	Total/NA	Solid	8021B	46604
880-24755-4	H-4 (0-1')	Total/NA	Solid	8021B	46604
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	8021B	46604
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	8021B	46604
880-24755-7	S-1 (2')	Total/NA	Solid	8021B	46604
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	8021B	46604
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	8021B	46604
880-24755-10	S-2 (2')	Total/NA	Solid	8021B	46604
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	8021B	46604
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	8021B	46604
880-24755-16	S-4 (2')	Total/NA	Solid	8021B	46604
MB 880-46604/5-A	Method Blank	Total/NA	Solid	8021B	46604
LCS 880-46604/1-A	Lab Control Sample	Total/NA	Solid	8021B	46604
LCSD 880-46604/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46604
880-24755-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	46604
880-24755-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	46604
Analysis Batch: 46567					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	8021B	46606
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	8021B	46606
880-24755-13	S-3 (2')	Total/NA	Solid	8021B	46606

000-24733-12	3-3 (0.3-1)	IOIdi/INA	Solid	0021D	40000
880-24755-13	S-3 (2')	Total/NA	Solid	8021B	46606
MB 880-46606/5-A	Method Blank	Total/NA	Solid	8021B	46606
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	8021B	46606
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46606
880-24755-11 MS	S-3 (0-0.5')	Total/NA	Solid	8021B	46606
880-24755-11 MSD	S-3 (0-0.5')	Total/NA	Solid	8021B	46606

Prep Batch: 46604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-24755-1	H-1 (0-1')	Total/NA	Solid	5035	
880-24755-2	H-2 (0-1')	Total/NA	Solid	5035	
880-24755-3	H-3 (0-1')	Total/NA	Solid	5035	
880-24755-4	H-4 (0-1')	Total/NA	Solid	5035	
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	5035	
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	5035	
880-24755-7	S-1 (2')	Total/NA	Solid	5035	
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	5035	
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	5035	
880-24755-10	S-2 (2')	Total/NA	Solid	5035	
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	5035	
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	5035	
880-24755-16	S-4 (2')	Total/NA	Solid	5035	
MB 880-46604/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46604/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-46604/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24755-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
880-24755-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

Eurofins Midland

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

5 6

Job ID: 880-24755-1 SDG: Lea Co, NM

GC VOA

Prep Batch: 46606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	5035	
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	5035	
880-24755-13	S-3 (2')	Total/NA	Solid	5035	
MB 880-46606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24755-11 MS	S-3 (0-0.5')	Total/NA	Solid	5035	
880-24755-11 MSD	S-3 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 46737

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
880-24755-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-24755-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-24755-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-24755-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	Total BTEX	
880-24755-7	S-1 (2')	Total/NA	Solid	Total BTEX	
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	Total BTEX	
880-24755-10	S-2 (2')	Total/NA	Solid	Total BTEX	
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	Total BTEX	
880-24755-13	S-3 (2')	Total/NA	Solid	Total BTEX	
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	Total BTEX	
880-24755-16	S-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46558

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-1	H-1 (0-1')	Total/NA	Solid	8015B NM	46578
880-24755-2	H-2 (0-1')	Total/NA	Solid	8015B NM	46578
880-24755-3	H-3 (0-1')	Total/NA	Solid	8015B NM	46578
880-24755-4	H-4 (0-1')	Total/NA	Solid	8015B NM	46578
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	8015B NM	46578
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	8015B NM	46578
880-24755-7	S-1 (2')	Total/NA	Solid	8015B NM	46578
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	8015B NM	46578
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	8015B NM	46578
880-24755-10	S-2 (2')	Total/NA	Solid	8015B NM	46578
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	8015B NM	46578
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	8015B NM	46578
880-24755-13	S-3 (2')	Total/NA	Solid	8015B NM	46578
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	8015B NM	46578
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	8015B NM	46578
880-24755-16	S-4 (2')	Total/NA	Solid	8015B NM	46578
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015B NM	46578
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46578
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46578

Eurofins Midland

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

GC Semi VOA (Continued)

Analysis Batch: 46558 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	46578
880-24755-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	46578

Prep Batch: 46578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-24755-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep		7
880-24755-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep		
880-24755-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep		8
880-24755-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep		
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep		9
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	8015NM Prep		
880-24755-7	S-1 (2')	Total/NA	Solid	8015NM Prep		10
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep		
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	8015NM Prep		44
880-24755-10	S-2 (2')	Total/NA	Solid	8015NM Prep		
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep		12
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	8015NM Prep		
880-24755-13	S-3 (2')	Total/NA	Solid	8015NM Prep		4.9
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	8015NM Prep		13
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	8015NM Prep		
880-24755-16	S-4 (2')	Total/NA	Solid	8015NM Prep		14
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015NM Prep		
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep		
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep		
880-24755-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep		
880-24755-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep		

Analysis Batch: 46788

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
880-24755-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-24755-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-24755-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-24755-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-24755-5	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-24755-6	S-1 (0.5-1')	Total/NA	Solid	8015 NM	
880-24755-7	S-1 (2')	Total/NA	Solid	8015 NM	
880-24755-8	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-24755-9	S-2 (0.5-1')	Total/NA	Solid	8015 NM	
880-24755-10	S-2 (2')	Total/NA	Solid	8015 NM	
880-24755-11	S-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-24755-12	S-3 (0.5-1')	Total/NA	Solid	8015 NM	
880-24755-13	S-3 (2')	Total/NA	Solid	8015 NM	
880-24755-14	S-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-24755-15	S-4 (0.5-1')	Total/NA	Solid	8015 NM	
880-24755-16	S-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46407

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-1	H-1 (0-1')	Soluble	Solid	DI Leach	

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Job ID: 880-24755-1

SDG: Lea Co, NM

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

HPLC/IC (Continued)

Leach Batch: 46407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24755-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-24755-3	H-3 (0-1')	Soluble	Solid	DI Leach	5
880-24755-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-24755-5	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-24755-6	S-1 (0.5-1')	Soluble	Solid	DI Leach	
880-24755-7	S-1 (2')	Soluble	Solid	DI Leach	
880-24755-8	S-2 (0-0.5')	Soluble	Solid	DI Leach	_
880-24755-9	S-2 (0.5-1')	Soluble	Solid	DI Leach	8
880-24755-10	S-2 (2')	Soluble	Solid	DI Leach	
880-24755-11	S-3 (0-0.5')	Soluble	Solid	DI Leach	9
880-24755-12	S-3 (0.5-1')	Soluble	Solid	DI Leach	
880-24755-13	S-3 (2')	Soluble	Solid	DI Leach	
880-24755-14	S-4 (0-0.5')	Soluble	Solid	DI Leach	
880-24755-15	S-4 (0.5-1')	Soluble	Solid	DI Leach	
880-24755-16	S-4 (2')	Soluble	Solid	DI Leach	
MB 880-46407/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46407/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46407/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24755-8 MS	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-24755-8 MSD	S-2 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 46810

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-24755-1	H-1 (0-1')	Soluble	Solid	300.0	46407
880-24755-2	H-2 (0-1')	Soluble	Solid	300.0	46407
880-24755-3	H-3 (0-1')	Soluble	Solid	300.0	46407
880-24755-4	H-4 (0-1')	Soluble	Solid	300.0	46407
880-24755-5	S-1 (0-0.5')	Soluble	Solid	300.0	46407
880-24755-6	S-1 (0.5-1')	Soluble	Solid	300.0	46407
880-24755-7	S-1 (2')	Soluble	Solid	300.0	46407
880-24755-8	S-2 (0-0.5')	Soluble	Solid	300.0	46407
880-24755-9	S-2 (0.5-1')	Soluble	Solid	300.0	46407
880-24755-10	S-2 (2')	Soluble	Solid	300.0	46407
880-24755-11	S-3 (0-0.5')	Soluble	Solid	300.0	46407
880-24755-12	S-3 (0.5-1')	Soluble	Solid	300.0	46407
880-24755-13	S-3 (2')	Soluble	Solid	300.0	46407
880-24755-14	S-4 (0-0.5')	Soluble	Solid	300.0	46407
880-24755-15	S-4 (0.5-1')	Soluble	Solid	300.0	46407
880-24755-16	S-4 (2')	Soluble	Solid	300.0	46407
MB 880-46407/1-A	Method Blank	Soluble	Solid	300.0	46407
LCS 880-46407/2-A	Lab Control Sample	Soluble	Solid	300.0	46407
LCSD 880-46407/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46407
880-24755-8 MS	S-2 (0-0.5')	Soluble	Solid	300.0	46407
880-24755-8 MSD	S-2 (0-0.5')	Soluble	Solid	300.0	46407

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Job ID: 880-24755-1 SDG: Lea Co, NM

Initial

Amount

4.96 g

5 mL

10.01 g

1 uL

5.05 g

Dil

1

1

1

1

1

Factor

Run

Batch

46604

46566

46737

46788

46578

46558

46407

46810

Number

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Client Sample ID: H-1 (0-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab

EET MID

Matrix: Solid

Lab Sample ID: 880-24755-1 Matrix: Solid

Analyst

EL

AJ

AJ

AJ

SM

AJ

ĸs

СН

Lab Sample ID: 880-24755-2

Lab Sample ID: 880-24755-3

Lab Sample ID: 880-24755-4

Prepared

or Analyzed

02/17/23 13:36

02/17/23 16:41

02/20/23 14:25

02/20/23 15:10

02/17/23 09:00

02/17/23 21:26

02/15/23 11:00

02/21/23 03:34

9 10 11

Matrix: Solid

_ 11 12

	2

Client Sample ID: H-2 (0-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 17:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 22:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 03:39	CH	EET MID

Client Sample ID: H-3 (0-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 17:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 22:53	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 03:56	CH	EET MID

Client Sample ID: H-4 (0-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 17:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID

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Matrix: Solid

Released to Imaging: 4/27/2023 3:33:49 PM

Client Sample ID: H-4 (0-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 23:14	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 04:02	СН	EET MID

Client Sample ID: S-1 (0-0.5') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 18:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 23:37	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		10			46810	02/21/23 04:08	СН	EET MID

Client Sample ID: S-1 (0.5-1') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 18:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 23:59	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		5			46810	02/21/23 04:13	СН	EET MID

Client Sample ID: S-1 (2') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 19:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 00:21	AJ	EET MID

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Matrix: Solid

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Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-4 Matrix: Solid

Lab Sample ID: 880-24755-5

> 11 12 13

Lab Sample ID: 880-24755-6

Lab Sample ID: 880-24755-7

Matrix: Solid

Matrix: Solid

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-7

Lab Sample ID: 880-24755-8

Client Sample ID: S-1 (2') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Project/Site: Red Hills Unit #2H

Client: Tetra Tech, Inc.

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 04:19	СН	EET MID

Client Sample ID: S-2 (0-0.5') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5205 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 19:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 00:43	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		10			46810	02/21/23 04:24	СН	EET MID

Client Sample ID: S-2 (0.5-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 20:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 01:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		5			46810	02/21/23 04:41	СН	EET MID

Client Sample ID: S-2 (2') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Lab Sample ID: 880-24755-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 20:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 01:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 04:47	СН	EET MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

9

Lab Sample ID: 880-24755-9 Matrix: Solid

Initial

Amount

4.96 g

5 mL

10.02 g

1 uL

4.96 g

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

46606

46567

46737

46788

46578

46558

46407

46810

Number

Dil

1

1

1

1

10

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: S-3 (0-0.5') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-11

Analyst

EL

AJ

AJ

AJ

SM

AJ

ĸs

СН

Prepared

or Analyzed

02/17/23 14:40

02/18/23 02:12

02/20/23 14:09

02/20/23 15:10

02/17/23 09:00

02/18/23 02:11

02/15/23 11:00

02/21/23 05:04

Matrix: Solid

Lab

EET MID

Matrix: Solid

Lab Sample ID: 880-24755-12 Matrix: Solid

Lab Sample ID: 880-24755-13

Lab Sample ID: 880-24755-14

rix: Solid

Client Sample ID: S-3 (0.5-1')
Date Collected: 02/14/23 00:00
Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 02:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 02:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		5			46810	02/21/23 05:10	СН	EET MID

Client Sample ID: S-3 (2') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 02:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 02:55	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 05:15	СН	EET MID

Client Sample ID: S-4 (0-0.5') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	46566	02/18/23 02:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID

Eurofins Midland

Matrix: Solid

Released to Imaging: 4/27/2023 3:33:49 PM

Client Sample ID: S-4 (0-0.5') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 03:17	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 05:21	СН	EET MID

Client Sample ID: S-4 (0.5-1') Date Collected: 02/14/23 00:00 Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/17/23 23:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 03:39	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 05:27	CH	EET MID

Client Sample ID: S-4 (2') Date Collected: 02/14/23 00:00

Date Received: 02/15/23 10:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46604	02/17/23 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46566	02/18/23 00:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46737	02/20/23 14:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46788	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 04:00	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46407	02/15/23 11:00	KS	EET MID
Soluble	Analysis	300.0		1			46810	02/21/23 05:32	СН	EET MID

Laboratory References:

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

Page 84 of 103

Job ID: 880-24755-1 SDG: Lea Co, NM

Lab Sample ID: 880-24755-14

Lab Sample ID: 880-24755-15

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-24755-16

Matrix: Solid

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Laboratory: Eurofins Midland

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

hority		Program	Identification Number	Expiration Date	
as		NELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report,	, but the laboratory is not certil	fied by the governing authority. This list ma	y include analytes for which	
the agency does not of	fer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Solid	Chloride		
8015 NM		Solid	Total TPH		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)	
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GR	C)-C6-C10	
8015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	3-C36)	
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
3021B	5035	Solid	Toluene		
8021B	5035	Solid	Xylenes, Total		
Total BTEX		Solid	Total BTEX		

2/22/2023

Job ID: 880-24755-1 SDG: Lea Co, NM

Method Summary

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H Job ID: 880-24755-1 SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Released to Imaging: 4/27/2023 3:33:49 PM

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Red Hills Unit #2H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24755-1	H-1 (0-1')	Solid	02/14/23 00:00	02/15/23 10:1
880-24755-2	H-2 (0-1')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-3	H-3 (0-1')	Solid	02/14/23 00:00	02/15/23 10:11
380-24755-4	H-4 (0-1')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-5	S-1 (0-0.5')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-6	S-1 (0.5-1')	Solid	02/14/23 00:00	02/15/23 10:11
880-24755-7	S-1 (2')	Solid	02/14/23 00:00	02/15/23 10:11
880-24755-8	S-2 (0-0.5')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-9	S-2 (0.5-1')	Solid	02/14/23 00:00	02/15/23 10:11
0-24755-10	S-2 (2')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-11	S-3 (0-0.5')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-12	S-3 (0.5-1')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-13	S-3 (2')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-14	S-4 (0-0.5')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-15	S-4 (0.5-1')	Solid	02/14/23 00:00	02/15/23 10:11
80-24755-16	S-4 (2')	Solid	02/14/23 00:00	02/15/23 10:1

12 13 14

Job ID: 880-24755-1

SDG: Lea Co, NM

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Work Order No: 24755

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Chain of Custody

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2/22/2023

Work Order No: 24755

Page 89 of 103

13 Chain of Custory

5

Job Number: 880-24755-1 SDG Number: Lea Co, NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Login Number: 24755 List Number: 1 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14



March 09, 2023

ASHTON THIELKE CARMONA RESOURCES 310 W WALL ST SUITE 415 MIDLAND, TX 79701

RE: RED HILLS 21

Enclosed are the results of analyses for samples received by the laboratory on 03/08/23 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: CS - 1 (0.75') (H231053-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/08/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/08/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: CS - 2 (0.75') (H231053-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: CS - 3 (0.75') (H231053-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: CS - 4 (0.75') (H231053-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: CS - 5 (0.75') (H231053-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: SW - 1 (0-0.75') (H231053-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: SW - 2 (0-0.75') (H231053-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: SW - 3 (0-0.75') (H231053-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:		
Received:	03/08/2023		Sampling Date:	03/08/2023
Reported:	03/09/2023		Sampling Type:	Soil
Project Name:	RED HILLS 21		Sampling Condition:	Cool & Intact
Project Number:	1245		Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO.	, NM		

Sample ID: SW - 4 (0-0.75') (H231053-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2023	ND	2.07	103	2.00	2.26	
Toluene*	<0.050	0.050	03/09/2023	ND	2.05	102	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.03	102	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.26	104	6.00	2.11	
Total BTEX	<0.300	0.300	03/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	169	84.3	200	1.30	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	182	91.2	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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				2	3151	3-8-2	100	1 apple 1	Man	n l	X	1 1 1	
Date/Time	Received by: (Signature)		Relinquished by: (Signature)		Date/Time	Da	//	Received by: (Signature)	Receive	1	(Signature)	Relinquished by:	
													-
	Э	resources.co	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	s.com an	source	armonare	moehring@c;	send results to c	Please				
					$\left\ - \right\ $					4			
				×	××	-	Comp.	×		3/8/2023	.0.75')	SW-4 (0-0.75')	~
				×	××	-	Comp.	×		3/8/2023	.0.75')	SW-3 (0-0.75')	y y
				×	××	-	Comp.	×		3/8/2023	-0.75')	SW-2 (0-0.75')	2
				×	X X	1	Comp.	×		3/8/2023	-0.75')	SW-1 (0-0.75')	0
				×	XXX	-	Comp.	×		3/8/2023	1.75')	CS-5 (0.75')	
				×	X X	1	Comp.	×		3/8/2023).75')	CS-4 (0.75')	-
				×	X X	1	Comp.	×		3/8/2023).75')	CS-3 (0.75')	-
				×	X X	1	Comp.	×		3/8/2023).75')	CS-2 (0.75')	-0
				×	X X	1	Comp.	×		3/8/2023).75')	CS-1 (0.75')	-
Sample Comments					TP	# of Cont	Water Comp	Soil W	Time	Date	tification	Sample Identification	
NaOH+Ascorbic Acid: SAPC	Na	*			H 801		43 C	Corrected Temperature:	Correcte			Total Containers:	-
Zn Acetate+NaOH: Zn	Zn			Ch			20%	Temperature Reading:	Tempera	NO NIA	ils: Yes	Sample Custody Seals:	
Na2S2O3: NaSO3				nlori			0,60	Correction Factor:	Correctio	NO NIA	s: Yes	Cooler Custody Seals:	
NaHSO4: NABIS	OLD			de 4	802 RO +		Y/3	Thermometer ID:	Thermor	Yes No	K	Received Intact:	
H ₃ PO ₄ : HP	H ₃ F			500		nete	Yes No	No Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT	
	H ₂ S) + M	rs	by 4:30pm	lab, if received by 4:30pm				PO #	
	НС				IRO)		received by the	TAT starts the day received by the		AT & KB		Sampler's Name:	1
Cool: Cool MeOH: Me	Co				,		24 hr	Due Date:		Lea Co, NM	Le	Project Location	_
None: NO DI Water: H ₂ O	No					Code	 Rush 	Routine	×.	1245		Project Number:	
Preservative Codes		UEST	ANALYSIS REQUEST				ound	Turn Around		Red Hills 21	R	Project Name:	
Other:	EDD ADaPT	Deliverables: EDD	terra.com	elke@cot	shton.thi	com & as	Email: laci.luig@coterra.com & ashton.thielke@coterra.com	Email: lac			432-813-5347	Phone:	
ST TRRP Level IV	Reporting:Level II Level III PST/UST	Reporting:Leve		X 79701	Midland, TX 79701	IN IN	City, State ZIP:	Cit		9701	Midland, TX 79701	City, State ZIP:	
	ct	State of Project:	Suite 600	600 N Marienfield St,	00 N Mar	0	Address:	Ad		I Ste. 415	310 West Wall Ste. 415	Address:	
elds RRC uperfund	7/PST PRP Brownfields	Program: UST/PST		nergy	Cimarex Energy	0	Company Name:	Co		ources	Carmona Resources	Company Name:	
nments	Work Order Comments				Laci Luig		Bill to: (if different)	Bill			Ashton Thielke	Project Manager:	
Page 1 of													
H23105	Work Order No:												
			dy	Chain of Custody	ofC	hain	C						
					•	*)						

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	200953
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Orestad	Our distance	O a maliti a m
-	Condition	Condition
By		Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	4/27/2023

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Action 200953