Form C-141 Page 6

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NAPP2228544134
District RP	
Facility ID	
Application ID	

Closure

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

A scaled site and sampling diagram as described in 19.15.29.1	1 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	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 certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in
OCD Only Received by: Robert Hamlet	Date:10/31/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 10/31/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced



SITE INFORMATION

Closure Report
Shell Federal #2 SWD Disposal Line
Incident # NAPP2228544134
Eddy County, New Mexico
Unit A Sec 29 T20S R25E
32.551779°, -104.498698°

Produced Water Release

Point of Release: Corroded Disposal Line

Release Date: 10.04.22

Volume Released: 80 barrels of Produced Water Volume Recovered: 0 barrels of Produced Water

CARMONA RESOURCES

Prepared for: Fasken Oil and Ranch, Ltd 6101 Holiday Hill Road Midland, TX 79707

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



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June 4, 2023

Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Closure Report

Shell Federal #2 SWD Disposal Line Fasken Oil and Ranch, Ltd Incident # NAPP2228544134 Site Location: Unit A, S29, T20S, R25E (Lat 32.551779°, Long -104.498698°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Fasken Oil and Ranch, Ltd. (Fasken), Carmona Resources, LLC has prepared this letter to document site activities for the Shell Federal #2 SWD Disposal Line. The site is located at 32.551779°, -104.498698° within Unit A, S29, T20S, R25E, in Eddy 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 release was discovered on October 4, 2022, due to a corroded disposal line. It released approximately eighty (80) barrels of produced water, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

On February 20, 2023, a 400 sq ft confirmation sampling variance was approved by the NMOCD. See Appendix C for the correspondence.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The well is located approximately 0.50 miles Northwest of the site in S20, T20S, R25E and was drilled in 2003. The well has a reported depth to groundwater of 218.03' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

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).

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



• Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.

• TPH: 100 mg/kg (GRO + DRO + MRO).

• Chloride: 600 mg/kg.

4.0 Site Assessment Activities

Initial Assessment

On October 24, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. Five (5) sample points and six (6) horizontal samples were advanced to depths ranging from the surface to 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. 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 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.

Vertical Delineation

Vertical delineation was achieved for the areas of S-1, S-3, and S-5 and was below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. However, the areas of S-2 and S-4 vertical delineation was not achieved due to chloride concentration ranging from 1,160 mg/kg to 2,450 mg/kg. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

On January 23, 2023, Fasken personnel was on site to collect one (1) bottom hole sample (BH) and four (4) sidewall samples (SW-N, SW-S, SW-W, SW-E) in the excavated area. The sample locations are shown in Figure 4A. Refer to Table 2.

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 May 8, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' below the surface, the area of S-2, S-4, and S-5 was excavated to a depth of 4.0' below the surface, and the area of S-3 was excavated to a depth of 3.0' below the surface to remove all the impacted soils. A total of eleven (11) floor confirmation samples were collected (CS-1 through CS-11), and nineteen (19) sidewall samples (SW-1 through SW-19) were collected every 400 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 4500.0. 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 4B.



All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 3.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 810 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the final laboratory data, it indicates that no further action is required at the site. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Mike Carmona

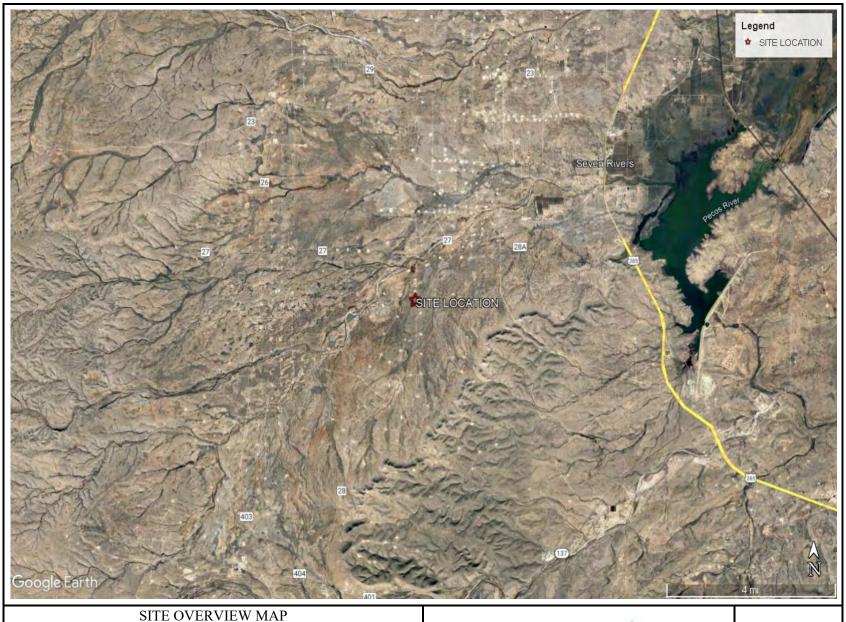
Environmental Manager

Conner Moehring

Sr. Project Manager

FIGURES

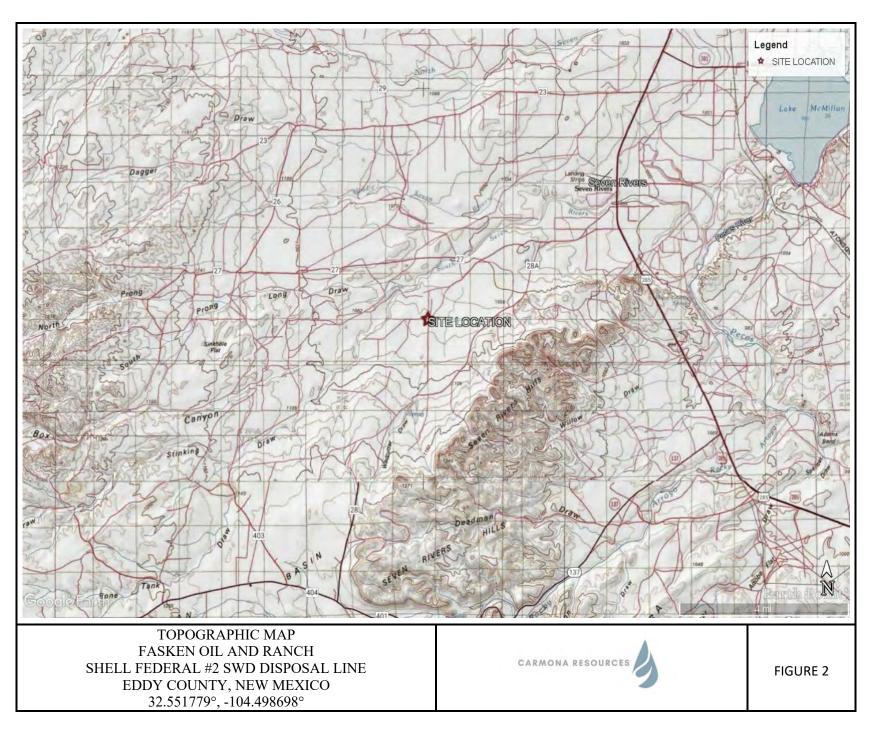
CARMONA RESOURCES

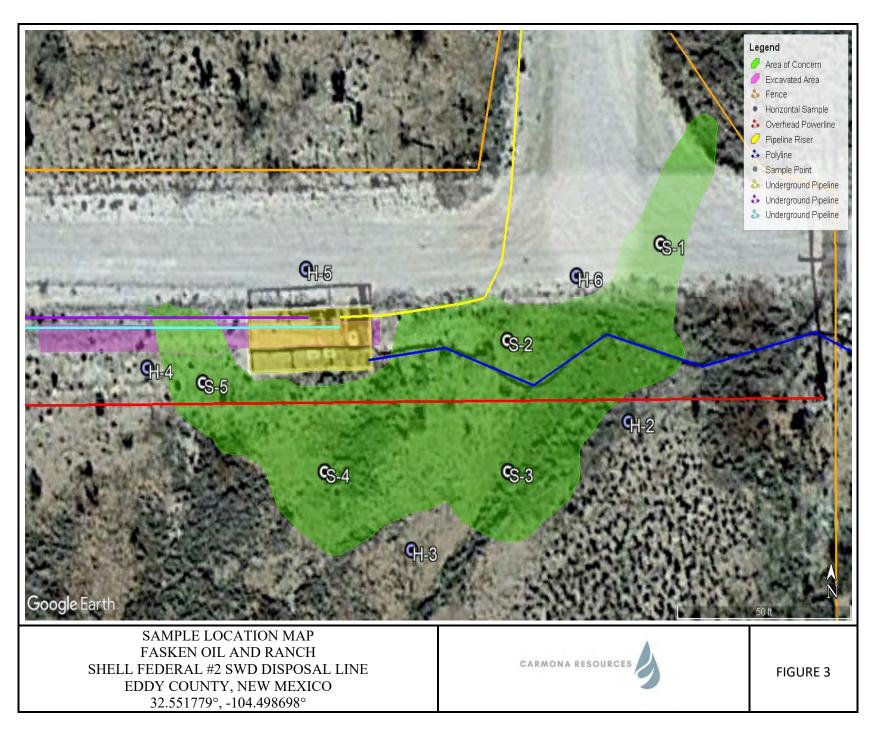


FASKEN OIL AND RANCH
SHELL FEDERAL #2 SWD DISPOSAL LINE
EDDY COUNTY, NEW MEXICO
32.551779°, -104.498698°



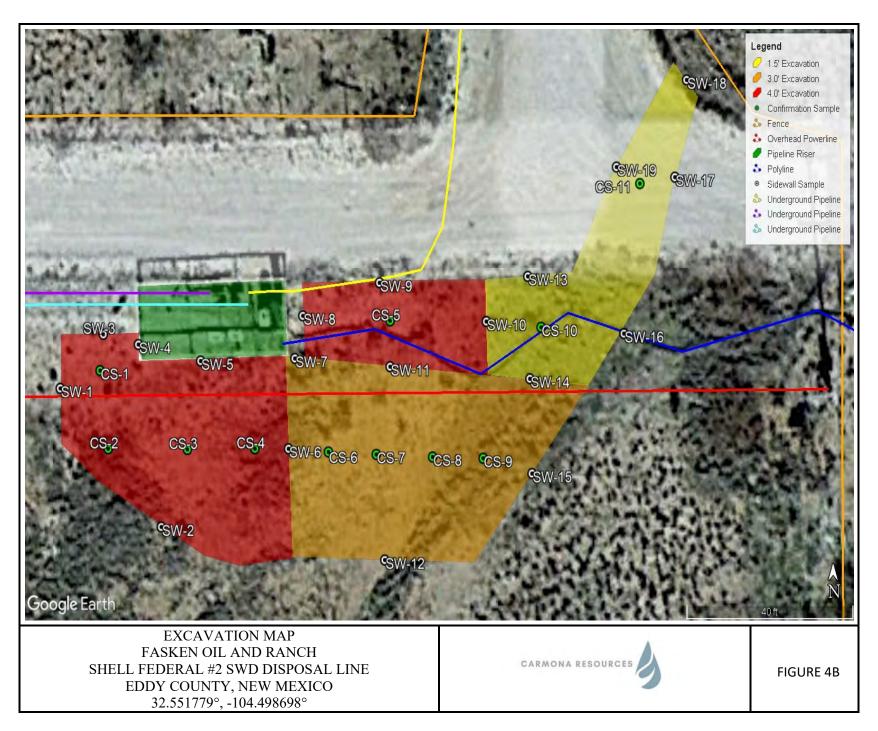
FIGURE 1







Received by OCD: 6/5/2023 1:04:19 PM



APPENDIX A



Table 1
Fasken Oil and Ranch
Shell Federal #2 SWD Disposal Line
Eddy County, New Mexico

				TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Chloride (mg/kg)
	10/24/2022	0-1	<49.8	91.2	<49.8	91.2	<0.201	<0.201	<0.201	<0.402	<0.402	18,300
S-1	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	163
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	120
	10/24/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,240
S-2	"	1.5	<49.9	<49.9	<49.9	<49.9	0.00275	<0.00199	<0.00199	<0.00398	0.00507	2,270
3-2	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,540
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,150
	10/24/2022	0-1	<50.0	315	<50.0	315	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	14,300
S-3	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10,100
3-3	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,310
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	160
	10/24/2022	0-1	170	2,610	<50.0	2,780	<0.0992	<0.0992	0.106	0.439	0.545	4,330
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10,400
S-4	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00340	0.00801	0.0114	12,400
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8,490
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	182
	10/24/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	0.00256	<0.00201	<0.00402	<0.00402	2,450
S-5	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,150
0.0	"	2.0	<50.0	<50.0	<50.0	<50.0	0.00253	<0.00199	<0.00199	<0.00398	<0.00398	1,600
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,160
H-1	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.98
H-2	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.96
H-3	10/24/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
H-4	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.97
H-5	10/24/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.5
H-6	10/24/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.18
	ory Criteria A					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

(S) Sample Point

Removed

Table 2 **Fasken Oil and Ranch** Shell Federal #2 Disposal Line **Eddy County, New Mexico**

Sample ID D		D 41 (6)	TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.02
SW-N	1/23/2023	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
SW-E	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.5
SW-S	1/23/2023	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	52.7
SW-W	1/23/2023	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.9
Regulato	ry Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons ft-feet (BH) Bottom Hole Sample (SW) Sidewall Sample

Table 3
Fasken Oil and Ranch
Shell Federal #2 Disposal Line
Eddy County, New Mexico

0 1 10	Committee ID			TPH	l (mg/kg)		Benzene	Toluene	oluene 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	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-3	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
CS-4	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-5	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-6	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-7	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-8	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-9	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-10	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-11	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	ry Criteria A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

 A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram
 TPH- Total Petroleum Hydrocarbons ft-feet (CS) Confirmation Smaple

Table 3
Fasken Oil and Ranch
Shell Federal #2 Disposal Line
Eddy County, New Mexico

Sample ID	Sample ID Date [TPH	(mg/kg)		Benzene	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)
SW-1	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-4	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	5/12/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-7	5/12/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-8	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-9	5/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-10	5/12/2023	2.5	11.1	<10.0	<10.0	11.1	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	5/12/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-12	5/12/2023	3.0	10.8	<10.0	<10.0	10.8	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-13	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-14	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-15	5/12/2023	3.0	11.5	<10.0	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-16	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-17	5/12/2023	1.5	11	<10.0	<10.0	11	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-18	5/12/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-19	5/12/2023	1.5	10.6	<10.0	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	192
Regulato	ry Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons ft-feet (SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 1

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-4.



Photograph No. 2

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-4.



Photograph No. 3

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View East, area of CS-5.





PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 4

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View West, area of CS-5.



Photograph No. 5

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-6 through CS-9.



Photograph No. 6

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View West, area of CS-6 though CS-10.





PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 7

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View Southeast, half of area of CS-11.



Photograph No. 8

Facility: Shell Federal #2 SWD Disposal

Line

County: Eddy County, New Mexico

Description:

View Northeast, half of area of CS-11.





APPENDIX C

CARMONA RESOURCES

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

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

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

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

QUESTIONS

Action 150438

QUESTIONS

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	150438
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source							
Please answer all of the questions in this group.							
Site Name	Shell Federal 2 SWD Disposal Line						
Date Release Discovered	10/04/2022						
Surface Owner	Federal						

Incident Details						
Please answer all of the questions in this group.						
Incident Type	Produced Water Release					
Did this release result in a fire or is the result of a fire	No					
Has this release reached or does it have a reasonable probability of reaching a watercourse	No					
Has this release endangered or does it have a reasonable probability of endangering public health	No					
Has this release substantially damaged or will it substantially damage property or the environment	No					
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No					

Nature and Volume of Release Asterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the values a provided chould be attached to the follow up C 144 submission
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 80 BBL Recovered: 0 BBL Lost: 80 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Disposal line was corroded that goes to the Shell Federal 2 SWD.The spill happened 3.3 Northeast of SWD battery.

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

QUESTIONS, Page 2

Action 150438

QUEST		/aanti	۱۵۰۰۰
ULITA	כשונ זו ו	1 C T M 11 I	M 16-11

Operator:	OGRID:	
FASKEN OIL & RANCH LTD	151416	
6101 Holiday Hill Rd	Action Number:	
Midland, TX 79707	150438	
	Action Type:	
	[NOTIFY] Notification Of Release (NOR)	

QUESTIONS

Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.		
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more		
If YES, was immediate notice given to the OCD, by whom	Addison Guelker		
If YES, was immediate notice given to the OCD, to whom	ocd.enviro@state.nm.us and blm_nm_cfo_spill@blm.gov		
If YES, was immediate notice given to the OCD, when	10/05/2022		
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial Response			
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.			
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	On a flowline so there were no berms to keep it from dissipating.		

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 150438

ACKNOWLEDGMENTS

Operator:	OGRID:	
FASKEN OIL & RANCH LTD	151416	
6101 Holiday Hill Rd	Action Number:	
Midland, TX 79707	150438	
	Action Type:	
	[NOTIFY] Notification Of Release (NOR)	

ACKNOWLEDGMENTS

✓	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
V	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.
V	I acknowledge the fact that 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.
V	I acknowledge the fact that, 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.

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

CONDITIONS

Action 150438

CONDITIONS

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	150438
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

В	Ву	Condition	Condition Date
	along	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2022

		***** LIQU	D SPILLS - VOL	UME CALCULATIO	NS *****			
Locati	on of spill:	Shell Fed #2 SWD Dis	oosal Line	Date of Spill:	4-Oct-202	22		
		If the leak/spill is as	sociated with production	on equipment, i.e wellhead	I, stuffing box,			
		flowline, tank battery, pr	oduction vessel, transfer	pump, or storage tank place	an "X" here:			
			Input	Data:	011	14/4750		
If spill vo	lumes from mea	surement, i.e. metering,	ank volumes, etc. are kr	nown enter the volumes here:	OIL: 0.0 BBL	WATER: 0.0 BBL	_	
lf "known"	spill volumes a	re given, input data for	the following "Area C	alculations" is optional. Th	e above will overrid	e the calculated	volumes.	
	Total Area	Calculations			Standing Liquid	d Calculations	5	
Total Surface Area	width	length	wet soil depth oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)
Rectangle Area #1	30 ft	19 ft X	6.00 in 0%	Rectangle Area #1	0 ft X	0 ft	X 0 in	0%
Rectangle Area #2 Rectangle Area #3	27 ft X 39 ft X	39 0 X 4 ft X	6.00 in 0% 6.00 in 0%	Rectangle Area #2 Rectangle Area #3			X 0 in X 0 in	0% 0%
Rectangle Area #4	39 ft X	13 ft X	6 in 0%	Rectangle Area #4			X 0 in	0%
Rectangle Area #5	76 ft X	54 ft X	6 in 0%	Rectangle Area #5			X 0 in	0%
Rectangle Area #6	0 ft X	0 ft X	0 in 0%	Rectangle Area #6			X 0 in	0%
Rectangle Area #7 Rectangle Area #8	0 ft X 0 ft X	0 ft X 0 ft X	0 in 0% 0 in 0%	Rectangle Area #7 Rectangle Area #8	0 ft X 0 ft X		X 0 in X 0 in	0% 0%
				J				
			okay					
A	0" 0 000			ODUCTION DATA REQUIRE	D			
Average Daily Production:	Oil 0 BBL	. Water 0 BBL	0 Gas (MCFD)	Total Hydrocarbon C	Content in gas: 0%	(percentage)		
Did look agour before the cone	rotor?	YES N/A	(place an "X")	H2S Content in P	· ·	PPM		
Did leak occur before the sepa	rator?.	YES IN/A	(place arr x)	H2S Content in		PPM		
Amount of Free Liquid Recovered:	0 BBL	okay		Percentage of Oil	in Free Liquid Recovered: 0%	(percentage)		
Liquid holding factor *:	0.14 gal per g	use the followi	ng when the spill wets the gra	ins of the soil.	Use the following when the	ne liquid completely fi	ills the pore space of the	e soil:
			gallon (gal.) liquid per gal. vo		Occurs when the spill so			not).
			che) loam = 0.14 gal. liquid pe am soil = 0.14 gal liquid per g		* Clay loam = 0.20 gal. lic * Gravelly (caliche) loam			
			1.16 gal. liquid per gal. volume		* Sandy loam = 0.5 gal. li			
Total Solid/Liquid Volume:	6,390 sq. ft.	3,195 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. 1	ft. cu	. ft.
Estimated Volumes	Spilled .			Estimated Production	n Volumes Lost			
Liquid	in Soil:	<u>H2O</u> 79.7 BBL	OIL 0.0 BBL	Estimated Prod	uction Spilled:	<u>H2O</u> 0.0 BBL	OIL . 0.0 BE	BL
	Liquid: Totals:	0.0 BBL 79.7 BBL	0.0 BBL 0.0 BBL	Estimated Surfa	ce Damage			
				Surface Area:	-,			
Total Liquid Spill	Liquid:	79.7 BBL	0.00 BBL	Surface Area:	.1467 acre			
Recovered Volum	nes			Estimated Weights,	, and Volumes			
Estimated oil recovered:	BBL	check - ok	ay	Saturated Soil =	357,840 lbs	3,195 cu. f	ft. 118 cu	. yds.
Estimated water recovered:	BBL	check - ok	ay	Total Liquid =	80 BBL	3,346 gallo	on 27,837 lbs	3
Air Emission from flow	line leaks: - BBL			Air Emission of Reporti	ng Requirements: New Mexico	т	00	
Volume of oil spill: Separator gas calculated:	- BBL - MCF			HC gas release reportable?		<u>Texa</u> NO	<u>a5</u>	
Separator gas released:	- MCF			H2S release reportable?		NO		
Gas released from oil:	- lb							
H2S released:	- lb							
Total HC gas released:	- lb							
Total HC gas released:	- MCF							

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

CONDITIONS

Action 150448

CONDITIONS

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	150448
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	10/13/2022

Received by OCD: 6/5/2023 1:04:19 PM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 29 of 177
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ 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 Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody			

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

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	NAPP2228544134
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Addison Guelker	Title: Environmental Tech			
Signature. Att. Cl	Date: 06/05/23			
email: addisong@forl.com	Telephone: 432-687-1777			
OCD Only				
Received by:	Date:			

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NAPP2228544134	
District RP		
Facility ID		
Application ID		

Closure

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in			
Signature: Atti GM	Date: 06/05/23			
email: addisong@forl.com	Telephone: 432-687-1777			
OCD Only				
Received by:	Date:			
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			

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

CONDITIONS

Action 160967

CONDITIONS

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	160967
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	/ Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for confirmation samples every 400 ft2 is approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.	

Miranda Milwee

From: Mike Carmona

Sent: Monday, May 8, 2023 4:25 PM

To: NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov)
Cc: Conner Moehring; Addison Guelker; Grant Huckabay

Subject: Fasken - Sampling Notification - Shell Federal #2 SWD Disposal Line -Incident # NAPP2228544134

Good Afternoon,

This email serves as a 48-hour notification for confirmation sampling on the Fasken Shell Federal #2 SWD Disposal Line. Sampling is scheduled to begin as early as 8:00 a.m. (MST) Thursday, May 11th, weather and soil conditions permitting. Carmona Resources will be on-site to collect the confirmation samples.

Incident # NAPP2228544134

Coordinates: 32.551779°, -104.498698°

Mike J. Carmona 310 West Wall Street, Suite 500 Midland TX, 79701

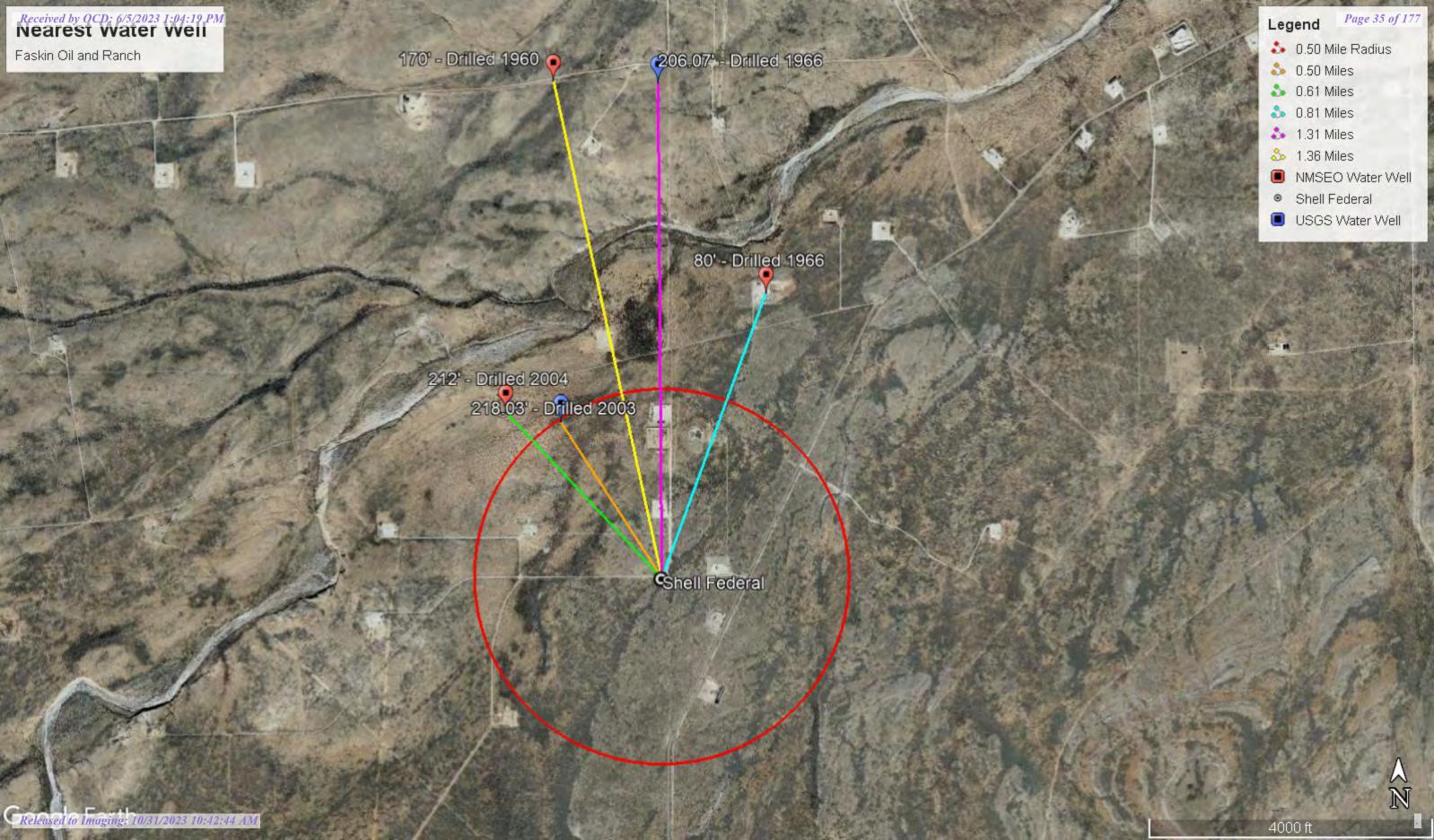
M: 432-813-1992

Mcarmona@carmonaresources.com



APPENDIX D

CARMONA RESOURCES





Legende 36 of 177

High
Shell Federal



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code basin	County		Q (-	Sec 1	Tws	Rna	X	Y	Distance	•	Depth Water	Water Column
RA 09978	RA	ED	3			29		25E	546393	3601410*	735	_		
RA 10618	RA	ED	1	1	4	20 2	20S	25E	546389	3602414 🌍	976	342	212	130
RA 05038	RA	ED	1	1	4	20 2	20S	25E	546390	3602416* 🌍	977	314	228	86
RA 05227	RA	ED			1	21 2	20S	25E	547506	3602926* 🌑	1293	100	80	20
RA 04349	RA	ED	4	1	4	17	20S	25E	546587	3603827* 🌑	2170	231	170	61
RA 12699	RA	ED	4	4	1	22	20S	25E	549327	3602647 🌑	2448			
C 03245	С	ED	3	1	4	32	20S	25E	546395	3598990* 🌕	2801	253	100	153
RA 04502	RA	ED		2	2	25	20S	24E	543656	3601480* 🌑	3416	300	268	32
RA 10141	RA	ED	3	4	1	23	20S	25E	550815	3602617*	3858	245		

Average Depth to Water: 176 feet

DEPTH TO WATER

Minimum Depth: 80 feet

Maximum Depth: 268 feet

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 547065.12 Northing (Y): 3601709.7 Radius: 4000

*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.



Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the <u>Water Data For The Nation Blog</u> for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

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 =

323328104301201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323328104301201 20S.25E.20.41114

Eddy County, New Mexico

Table of data

Tab-separated data

1992-02-06

Latitude 32°33'28", Longitude 104°30'12" NAD27

Land-surface elevation 3,502 feet above NAVD88

The depth of the well is 314.0 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

|--|

Graph of dat	<u>a</u>									
eselect per	<u>od</u>									
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
1984-02-01		D	62610		3286.24	NGVD29	1	Z		
1984-02-01		D	62611		3287.82	NAVD88	1	Z		
1984-02-01		D	72019	214.18			1	Z		
.989-02-09		D	62610		3305.62	NGVD29	1	Z		
1989-02-09		D	62611		3307.20	NAVD88	1	Z		
1989-02-09		D	72019	194.80			1	Z		
1990-03-07		D	62610		3303.49	NGVD29	1	S		
1990-03-07		D	62611		3305.07	NAVD88	1	S		
1990-03-07		D	72019	196.93			1	S		
1992-02-06		D	62610		3302.77	NGVD29	1	Z		
1992-02-06		D	62611		3304.35	NAVD88	1	Z		

72019

197.65

D

Ζ

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Refe vert datu	
1993-02-04	D	62610	3304.86	NGVD29	1	Z	
1993-02-04	D	62611	3306.44	NAVD88	1	Z	
1993-02-04	D	72019	195.56		1	Z	
1994-02-11	D	62610	3302.19	NGVD29	1	Z	
1994-02-11	D	62611	3303.77	NAVD88	1	Z	
1994-02-11	D	72019	198.23		1	Z	
1999-02-24	D	62610	3293.39	NGVD29	1	S	USGS
1999-02-24	D	62611	3294.97	NAVD88	1	S	USGS
1999-02-24	D	72019	207.03		1	S	USGS
2003-01-22	D	62610	3282.39	NGVD29	1	S	USGS
2003-01-22	D	62611	3283.97	NAVD88	1	S	USGS
2003-01-22	D	72019	218.03		1	S	USGS

pla		

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	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	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes <u>News</u>

Accessibility FOIA Privacy Policies and Notices

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: New Mexico Water Data Maintainer Page Last Modified: 2022-10-27 10:59:41 EDT

0.3 0.25 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

RA 10618

20S 25E

546389

3602414

Driller License: 421 **Driller Company:**

GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date: 09/14/2004 **Drill Finish Date:**

09/14/2004

Plug Date:

Log File Date:

09/20/2004

PCW Rcv Date:

Source:

Artesian

Pump Type:

SUBMER

Pipe Discharge Size:

Estimated Yield: 130 GPM

Casing Size:

6.63

Depth Well: 342 feet

238

Depth Water:

212 feet

Water Bearing Stratifications:

Casing Perforations:

Top Bottom Description

292 Limestone/Dolomite/Chalk 342 Limestone/Dolomite/Chalk

298

Top Bottom

236 312

312 342

Meter Number:

Unit of Measure:

8311

Meter Make:

BLANCETT

Meter Serial Number: 112211502

Meter Multiplier:

1.0000

Diversion

Number of Dials:

6 Barrels 42 gal. Meter Type: **Return Flow Percent:**

Usage Multiplier:

Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
09/18/2004	2004	106888	A	RPT	0
10/13/2004	2004	110043	A	RPT	0.968
01/05/2005	2005	0	A	RPT	0
02/10/2005	2005	7420	A	RPT	2.277
07/14/2005	2005	43444	A	RPT	0
09/12/2005	2005	53144	A	RPT	2.977
10/29/2005	2005	141623	A	RPT	0
12/04/2005	2005	147395	A	RPT	1.771
05/11/2012	2012	0	A	RPT	0
05/22/2012	2012	23038	A	RPT	2.969
05/22/2012	2012	23038	A	RPT intial reading for RA 11821	0
06/02/2012	2012	46176	A	RPT ending reading for RA 11821	2.982

**YTD Meter Amounts: Year Amount 2004 0.968 2005 7.025 2012 5.951 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, or suitability for any particular purpose of the data.

10/27/22 8:34 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

RA 05227

21 20S 25E 547506 3602926*

Driller License:

408

Driller Company:

PRICE, TOMMY

Driller Name:

PRICE, TOMMY

6.63

Plug Date:

Drill Start Date:

05/20/1966

Drill Finish Date:

06/05/1966

Shallow

Log File Date:

07/18/1966

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Casing Size: Pipe Discharge Size:

100 feet

Depth Water:

Estimated Yield:

80 feet

Water Bearing Stratifications:

Top Bottom Description

80

100 Limestone/Dolomite/Chalk

Casing Perforations:

Top **Bottom**

75 100

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.

10/27/22 8:37 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the <u>Water Data For The Nation Blog</u> for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

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 =

• 323415104295601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323415104295601 20S.25E.17.42321

Eddy County, New Mexico

Table of data

Tab-separated data

1963-09-04

Latitude 32°34'15", Longitude 104°29'56" NAD27

Land-surface elevation 3,504 feet above NAVD88

The depth of the well is 231 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

eselect per	iod									
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
1962-01-05	5	D	62610		3322.75	NGVD29	1	Z		
1962-01-05	5	D	62611		3324.32	NAVD88	1	Z		
1962-01-05	5	D	72019	179.68			1	Z		
1963-01-07	,	D	62610		3315.44	NGVD29	1	Z		
1963-01-07	,	D	62611		3317.01	NAVD88	1	Z		
1963-01-07	,	D	72019	186.99			1	Z		
1963-07-24	ŀ	D	62610		3307.77	NGVD29	Р	Z		
1963-07-24	ŀ	D	62611		3309.34	NAVD88	Р	Z		
1963-07-24	ŀ	D	72019	194.66			Р	Z		
1963-09-04	ŀ	D	62610		3288.15	NGVD29	1	Z		
1963-09-04	ļ.	D	62611		3289.72	NAVD88	1	Z		

1

Ζ

72019

214.28

Date	Time	? Water-level date-time accuracy	? Para code	meter	Water level, feet below land surface	Water level, feet above specific vertical datum		Referenced vertical datum
1963-10-02	D	62610		3288.43	NGVD29	1	Z	
1963-10-02	D	62611		3290.00	NAVD88	1	Z	
1963-10-02	D	72019	214.00			1	Z	
1963-11-20	D	62610		3295.25	NGVD29	Р	Z	
1963-11-20	D	62611		3296.82	NAVD88	Р	Z	
1963-11-20	D	72019	207.18			Р	Z	
1964-01-06	D	62610		3305.15	NGVD29	Р	Z	
1964-01-06	D	62611		3306.72	NAVD88	Р	Z	
1964-01-06	D	72019	197.28			Р	Z	
1965-01-13	D	62610		3295.75	NGVD29	Р	Z	
1965-01-13	D	62611		3297.32	NAVD88	Р	Z	
1965-01-13	D	72019	206.68			Р	Z	
1966-01-27	D	62610		3296.36	NGVD29	1	Z	
1966-01-27	D	62611		3297.93	NAVD88	1	Z	
1966-01-27	D	72019	206.07			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
Status	1	Static
Status	Р	Pumping
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.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes **News**

Accessibility FOIA Privacy Policies and Notices

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: New Mexico Water Data Maintainer Page Last Modified: 2022-10-27 11:03:35 EDT

0.29 0.25 nadww02





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

RA 04349

20S 25E

546587 3603827*

Driller License: 62 **Driller Company:**

BEATTY, J.R.

Driller Name:

W.BEATTY

12/24/1960 **Drill Finish Date:**

12/27/1960 **Plug Date:**

Drill Start Date: Log File Date:

01/11/1961

PCW Rcv Date:

Shallow

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00

Depth Well:

231 feet **Depth Water:** 170 feet

Water Bearing Stratifications:

Top Bottom Description

218

Sandstone/Gravel/Conglomerate

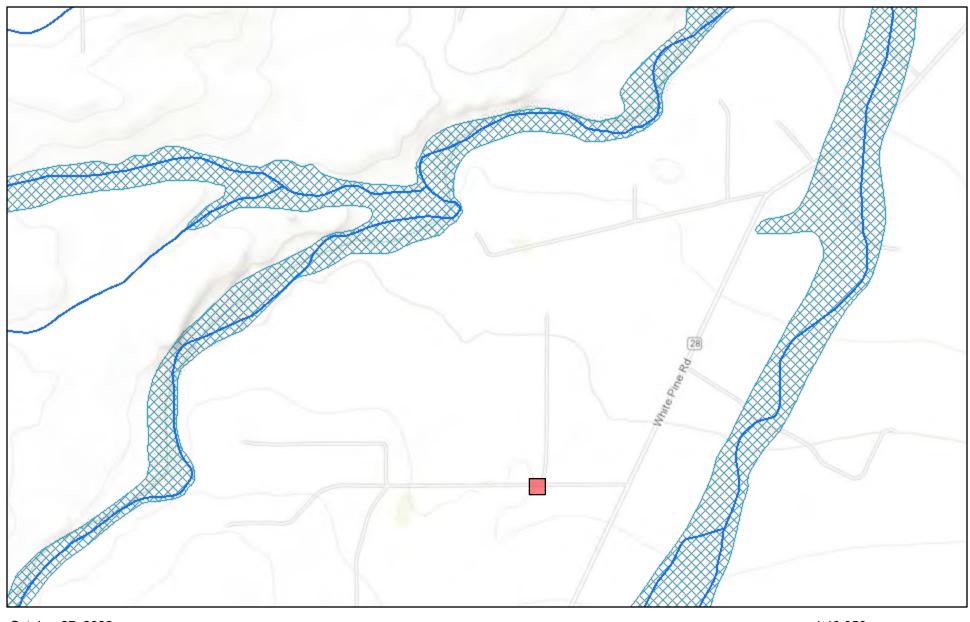
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/27/22 8:39 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

New Mexico NFHL Data



October 27, 2022

1:18,056 0 0.13 0.25 0.5 mi 0 0.2 0.4 0.8 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

APPENDIX E

CARMONA RESOURCES

Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20700-1

Laboratory Sample Delivery Group: Eddy County, New Mexico

Client Project/Site: Shell Federal

For:

Carmona Resources 310 W Wall St Ste 415 Midland, Texas 79701

Attn: Mike Carmona

JURAMER

Authorized for release by: 10/31/2022 9:39:32 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 10/31/2023 10:42:44 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

1

3

6

10

. .

13

Client: Carmona Resources Project/Site: Shell Federal Laboratory Job ID: 880-20700-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Qualifiers

GC	VOA
Qual	lifier

Quannon	quamor boompton
*_	LCS and/or LCSD is outside acceptance limits, low biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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.

Glossarv

Ciossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

EDL

Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting 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

Case Narrative

Client: Carmona Resources

Job ID: 880-20700-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Job ID: 880-20700-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-20700-1

Receipt

The samples were received on 10/25/2022 9:36 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 0.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-20700-1), H-2 (0-0.5') (880-20700-2), H-3 (0-0.5') (880-20700-3), H-4 (0-0.5') (880-20700-4), H-5 (0-0.5') (880-20700-5) and H-6 (0-0.5') (880-20700-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-38061 and analytical batch 880-38058 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-38061 and analytical batch 880-38058 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-37877 and analytical batch 880-37857 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-37877/3-A) and (MB 880-37877/1-A). 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.

HPLC/IC

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

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Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-20700-1 **Client Sample ID: H-1 (0-0.5')**

Matrix: Solid

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/28/22 09:04	10/28/22 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/28/22 09:04	10/28/22 15:30	
1,4-Difluorobenzene (Surr)	91		70 - 130				10/28/22 09:04	10/28/22 15:30	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/30/22 22:15	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result	ics (DRO) (GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	l Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared	Analyzed 10/27/22 09:52	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	ics (DRO) (Qualifier	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <	ics (DRO) (Qualifier	GC) RL 50.0		Unit	<u>D</u>	Prepared Prepared		1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <	Qualifier Unics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg		<u> </u>	10/27/22 09:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	I Range Organ Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL		Unit mg/Kg		Prepared	10/27/22 09:52 Analyzed	Dil Fac
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)	I Range Organ Result <50.0 sel Range Orga Result <50.0	Cualifier U nics (DRO) Qualifier U U U U U U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 10/26/22 08:35	10/27/22 09:52 Analyzed 10/26/22 19:03	Dil Fac
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) Oll Range Organics (Over C28-C36)	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 08:35 10/26/22 08:35	10/27/22 09:52 Analyzed 10/26/22 19:03 10/26/22 19:03	Dil Fac
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) Oll Range Organics (Over C28-C36) Surrogate	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 08:35 10/26/22 08:35	Analyzed 10/26/22 19:03 10/26/22 19:03	Dil Fac
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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 08:35 10/26/22 08:35 10/26/22 08:35 Prepared	Analyzed 10/26/22 19:03 10/26/22 19:03 40/26/22 19:03 Analyzed	Dil Fac
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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0	Company (Company) (Company	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 08:35 10/26/22 08:35 10/26/22 08:35 Prepared 10/26/22 08:35	Analyzed 10/26/22 19:03 10/26/22 19:03 10/26/22 19:03 Analyzed 10/26/22 19:03	Dil Fac
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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	I Range Organ Result <50.0 Sel Range Orga Result <50.0 <50.0 <50.0 <8ecovery 103 113 , lon Chromato	Company (Company) (Company	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 08:35 10/26/22 08:35 10/26/22 08:35 Prepared 10/26/22 08:35	Analyzed 10/26/22 19:03 10/26/22 19:03 10/26/22 19:03 Analyzed 10/26/22 19:03	Dil Fac

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-20700-2 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				10/28/22 09:04	10/28/22 15:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/28/22 09:04	10/28/22 15:56	1

Client Sample Results

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

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

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Lab Sample ID: 880-20700-2

Analyzed

10/26/22 19:24

10/26/22 19:24

Prepared

10/26/22 08:35

10/26/22 08:35

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/30/22 22:15	1
Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					""			10/27/22 09:52	
Total TPH : Method: SW846 8015B NM - Diesel	<50.0		50.0 (GC)		mg/Kg			10/27/22 09:52	1
	Range Orga			MDL	mg/Kg Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (Qualifier	(GC)	MDL		<u>D</u>	Prepared 10/26/22 08:35		Dil Fac
Method: SW846 8015B NM - Diesel Analyte	Range Orga Result	nics (DRO) (Qualifier	GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics	Range Orga Result	nics (DRO) (Qualifier	GC)	MDL	Unit	<u>D</u>		Analyzed	1 Dil Fac
Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10	Range Orga Result <50.0	nics (DRO) (Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg	<u> </u>	10/26/22 08:35	Analyzed 10/26/22 19:24	Dil Fac

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<4.96	U	4.96	mg/Kg			10/27/22 22:40	1

Limits

70 - 130

70 - 130

%Recovery Qualifier

85

97

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

Released to Imaging: 10/31/2023 10:42:44 AM

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Surrogate

o-Terphenyl

1-Chlorooctane

Lab Sample ID: 880-20700-3 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	-
Toluene	<0.00199	U *-	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 17:51	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/28/22 09:04	10/28/22 17:51	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/28/22 09:04	10/28/22 17:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				10/28/22 09:04	10/28/22 17:51	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte			70 ₋ 130	MDL	Unit	D	10/28/22 09:04	10/28/22 17:51	
• • • • • • • • • • • • • • • • • • • •		culation	70 - 130				10/28/22 09:04	10/28/22 17:51	
• • • • • • • • • • • • • • • • • • • •	- Total BTEX Cald	Qualifier	70 - 130 RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	10/28/22 09:04 Prepared	Analyzed 10/30/22 22:15	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398	MDL MDL	mg/Kg	D		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 10/30/22 22:15	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9		mg/Kg		Prepared	Analyzed 10/30/22 22:15 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared	Analyzed 10/30/22 22:15 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/30/22 22:15 Analyzed 10/27/22 09:52	Dil Fac

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Dil Fac

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

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

Client: Carmona Resources Project/Site: Shell Federal

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Lab Sample ID: 880-20700-3

Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 08:35	10/26/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/26/22 08:35	10/26/22 19:45	1
o-Terphenyl	96		70 - 130				10/26/22 08:35	10/26/22 19:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed Chloride <4.99 U 4.99 10/27/22 22:48 mg/Kg

Client Sample ID: H-4 (0-0.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Lab Sample ID: 880-20700-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 10/28/22 09:04 10/28/22 18:17 mg/Kg Toluene <0.00199 U*-0.00199 10/28/22 09:04 10/28/22 18:17 mg/Kg Ethylbenzene <0.00199 0.00199 10/28/22 09:04 10/28/22 18:17 mg/Kg m-Xylene & p-Xylene 10/28/22 09:04 10/28/22 18:17 <0.00398 U 0.00398 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 10/28/22 09:04 10/28/22 18:17 <0.00398 U Xylenes, Total 0.00398 mg/Kg 10/28/22 09:04 10/28/22 18:17 %Recovery Limits Surrogate Qualifier Prepared Analyzed

Dil Fac 70 - 130 4-Bromofluorobenzene (Surr) 113 10/28/22 09:04 10/28/22 18:17 1,4-Difluorobenzene (Surr) 95 70 - 130 10/28/22 09:04 10/28/22 18:17

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00398 U 0.00398 mg/Kg 10/30/22 22:15

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Dil Fac RL Unit D Prepared Analyzed Total TPH <50.0 Ū 50.0 10/27/22 09:52 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 10/26/22 08:35 10/26/22 20:07 mg/Kg (GRO)-C6-C10 50.0 10/26/22 08:35 10/26/22 20:07 Diesel Range Organics (Over <50.0 U mg/Kg OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 10/26/22 08:35 10/26/22 20:07 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 95 70 - 130 10/26/22 08:35 10/26/22 20:07 70 - 130 10/26/22 08:35 o-Terphenyl 104 10/26/22 20:07

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Dil Fac RL Unit Prepared Analyzed Chloride <4.97 U 4.97 10/27/22 22:57 mg/Kg

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Lab Sample ID: 880-20700-5

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/28/22 09:04	10/28/22 18:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130				10/28/22 09:04	10/28/22 18:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		ma/Ka			10/30/22 22:15		

Method: SW846 8015 NM - Diesel R	ange Organics (DRO) (G0	C)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			10/27/22 09:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *+ *1	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/27/22 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				10/26/22 11:21	10/27/22 02:29	1
o-Terphenyl	99		70 - 130				10/26/22 11:21	10/27/22 02:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		5.03		mg/Kg			10/27/22 23:05	1

Client Sample ID: H-6 (0-0.5') Lab Sample ID: 880-20700-6 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Released to Imaging: 10/31/2023 10:42:44 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/28/22 09:04	10/28/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/28/22 09:04	10/28/22 19:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130				10/28/22 09:04	10/28/22 19:09	1

Client Sample Results

Client: Carmona Resources

Job ID: 880-20700-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Client Sample ID: H-6 (0-0.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20700-6

Matrix: Solid

Method: TAL SOP Total BTEX - Tot	tal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/30/22 22:15	1
Method: SW846 8015 NM - Diesel 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			10/27/22 09:52	1
- Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *+ *1	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 11:21	10/27/22 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/26/22 11:21	10/27/22 02:50	1
o-Terphenyl	117		70 - 130				10/26/22 11:21	10/27/22 02:50	1
Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble						
Method: MCAWW 300.0 - Anions, I Analyte		graphy - So Qualifier	oluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED74	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20623-A-84-G MS	Matrix Spike	99	93	
880-20623-A-84-K MSD	Matrix Spike Duplicate	96	92	
880-20700-1	H-1 (0-0.5')	101	91	
880-20700-2	H-2 (0-0.5')	109	94	
880-20700-3	H-3 (0-0.5')	113	90	
880-20700-4	H-4 (0-0.5')	113	95	
880-20700-5	H-5 (0-0.5')	111	91	
880-20700-6	H-6 (0-0.5')	102	90	
LCS 880-38061/1-A	Lab Control Sample	110	106	
LCSD 880-38061/2-A	Lab Control Sample Dup	108	100	
MB 880-38061/6-A	Method Blank	62 S1-	89	

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)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20700-1	H-1 (0-0.5')	103	113	
880-20700-2	H-2 (0-0.5')	85	97	
880-20700-3	H-3 (0-0.5')	84	96	
880-20700-4	H-4 (0-0.5')	95	104	
880-20700-5	H-5 (0-0.5')	87	99	
880-20700-6	H-6 (0-0.5')	106	117	
890-3271-A-4-C MS	Matrix Spike	77	81	
890-3271-A-4-D MSD	Matrix Spike Duplicate	78	82	
390-3276-A-21-B MS	Matrix Spike	82	84	
890-3276-A-21-C MSD	Matrix Spike Duplicate	98	97	
LCS 880-37854/2-A	Lab Control Sample	90	109	
LCS 880-37877/2-A	Lab Control Sample	97	118	
LCSD 880-37854/3-A	Lab Control Sample Dup	109	126	
LCSD 880-37877/3-A	Lab Control Sample Dup	117	137 S1+	
MB 880-37854/1-A	Method Blank	98	123	
MB 880-37877/1-A	Method Blank	121	146 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-20700-1 Client: Carmona Resources Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38061/6-A

Matrix: Solid

Analysis Batch: 38058

Lab Sample ID: LCS 880-38061/1-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38061

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/28/22 09:04	10/28/22 11:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/28/22 09:04	10/28/22 11:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	10/28/22 09:04	10/28/22 11:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/28/22 09:04	10/28/22 11:36	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38061

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07369 mg/Kg 74 70 - 130 Toluene 0.100 0.06319 *mg/Kg 63 70 - 130 0.100 0.07103 71 Ethylbenzene mg/Kg 70 - 130 0.200 71 70 - 130 m-Xylene & p-Xylene 0.1424 mg/Kg 0.100 0.07141 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-38061/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38058

Analysis Batch: 38058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 38061

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08194		mg/Kg		82	70 - 130	11	35
Toluene	0.100	0.07901		mg/Kg		79	70 - 130	22	35
Ethylbenzene	0.100	0.07690		mg/Kg		77	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1545		mg/Kg		77	70 - 130	8	35
o-Xylene	0.100	0.07852		mg/Kg		79	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 880-20623-A-84-G MS

Matrix: Solid

Analysis Batch: 38058

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

Prep Batch: 38061

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.07938		mg/Kg		80	70 - 130	
Toluene	<0.00199	U *-	0.0998	0.07727		mg/Kg		77	70 - 130	

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Released to Imaging: 10/31/2023 10:42:44 AM

QC Sample Results

Job ID: 880-20700-1 Client: Carmona Resources Project/Site: Shell Federal SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20623-A-84-G MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38058

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene < 0.00199 U 0.0998 0.07442 75 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 U 0.200 0.1483 mg/Kg 74 70 - 130 0.0998 o-Xylene <0.00199 U 0.07325 73 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: 880-20623-A-84-K MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38058

Prep Type: Total/NA

Prep Batch: 38061

Prep Batch: 38061

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U 0.0990 0.08035 mg/Kg 81 70 - 130 35 78 Toluene <0.00199 0.0990 0.07748 mg/Kg 70 - 130 0 35 Ethylbenzene <0.00199 0.0990 0.07532 76 70 - 130 35 U mg/Kg 0.198 76 70 - 130 35 m-Xylene & p-Xylene <0.00398 U 0.1500 mg/Kg <0.00199 U 0.0990 0.07389 75 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-37854/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 37857

Prep Type: Total/NA Prep Batch: 37854

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 08:35	10/26/22 09:08	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/26/22 08:35	10/26/22 09:08	1
o-Terphenyl	123		70 - 130	10/26/22 08:35	10/26/22 09:08	1

Lab Sample ID: LCS 880-37854/2-A **Matrix: Solid**

Analysis Batch: 37857

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 37854

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	975.8		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	840.0		mg/Kg		84	70 - 130	
C10-C28)								

Limits

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

Client: Carmona Resources Project/Site: Shell Federal

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-37854/2-A **Matrix: Solid**

Analysis Batch: 37857

Surrogate

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37854

1-Chlorooctane 90

70 - 130 o-Terphenyl 109 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37854

Lab Sample ID: LCSD 880-37854/3-A **Matrix: Solid**

Analysis Batch: 37857

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	800.4		mg/Kg		80	70 - 130	20	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	939.0		mg/Kg		94	70 - 130	11	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qu	ıalifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-3271-A-4-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Ana

Analysis Batch: 37857							Prep Batch:	37854
	Sample Sample	Spike	MS MS				%Rec	
Analyte	Result Qualifier	Added	Result Qualifier	Unit	D	%Rec	Limits	

Gasoline Range Organics <49.8 U 998 1099 mg/Kg 108 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 932.0 mg/Kg 92 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 77 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-3271-A-4-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 37857

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1173		mg/Kg		115	70 - 130	7	20
Diesel Range Organics (Over	<49.8	U	998	942.1		mg/Kg		93	70 - 130	1	20

C10-C28)

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

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Prep Batch: 37854

QC Sample Results

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-37877/1-A

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37877

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 11:21	10/26/22 20:49	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/26/22 11:21	10/26/22 20:49	1

70 - 130

Lab Sample ID: LCS 880-37877/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 37857

Client Sample ID: Lab Control Sample

10/26/22 20:49

10/26/22 11:21

Prep Type: Total/NA

Prep Batch: 37877

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1077 108 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1003 mg/Kg 100 70 - 130C10-C28)

LCS LCS

146 S1+

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 97 70 - 130 o-Terphenyl 118 70 - 130

Lab Sample ID: LCSD 880-37877/3-A

Analysis Batch: 37857

Matrix: Solid

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 37877

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics 1000 1328 *+ *1 mg/Kg 133 70 - 130 21 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1159 mg/Kg 116 70 - 130 14 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 117 137 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-3276-A-21-B MS

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37877

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U *+ *1	998	1122	-	mg/Kg		110	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	998	938.0		mg/Kg		94	70 - 130	
C10-C28)										

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-3276-A-21-B MS

Matrix: Solid

Analysis Batch: 37857

Client: Carmona Resources Project/Site: Shell Federal

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37877

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-3276-A-21-C MSD

MS MS

Matrix: Solid

Analysis Batch: 37857

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37877

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.8 U *+ *1 998 937.6 91 70 - 13018 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 <49.8 U 1117 mg/Kg 112 70 - 13017 20 C10-C28)

MSD MSD

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 98 97 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37837/1-A

Matrix: Solid

Analysis Batch: 38045

Client Sample ID: Method Blank **Prep Type: Soluble**

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: H-1 (0-0.5')

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Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 10/27/22 21:50

Lab Sample ID: LCS 880-37837/2-A

Matrix: Solid

Analysis Batch: 38045

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 252.5 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-37837/3-A

Matrix: Solid

Analysis Batch: 38045

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.1 102 90 - 110 20 mg/Kg

Lab Sample ID: 880-20700-1 MS

Matrix: Solid

Analyte

Chloride

Analysis Batch: 38045

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits Unit <4.98 249 246.5 mg/Kg 90 - 110

QC Sample Results

Client: Carmona Resources Job ID: 880-20700-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20700-1 MSD **Client Sample ID: H-1 (0-0.5')**

Matrix: Solid Prep Type: Soluble Analysis Batch: 38045

RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chloride <4.98 U 249 247.6 mg/Kg 99 90 - 110 0 20

QC Association Summary

Client: Carmona Resources

Job ID: 880-20700-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 38058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8021B	38061
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8021B	38061
MB 880-38061/6-A	Method Blank	Total/NA	Solid	8021B	38061
LCS 880-38061/1-A	Lab Control Sample	Total/NA	Solid	8021B	38061
LCSD 880-38061/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38061
880-20623-A-84-G MS	Matrix Spike	Total/NA	Solid	8021B	38061
880-20623-A-84-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38061

Prep Batch: 38061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-38061/6-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38061/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38061/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20623-A-84-G MS	Matrix Spike	Total/NA	Solid	5035	
880-20623-A-84-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 37854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-37854/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37854/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3271-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3271-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-20700-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 37857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	37854
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	37877
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	37877
MB 880-37854/1-A	Method Blank	Total/NA	Solid	8015B NM	37854
MB 880-37877/1-A	Method Blank	Total/NA	Solid	8015B NM	37877
LCS 880-37854/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37854
LCS 880-37877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37877
LCSD 880-37854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37854
LCSD 880-37877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37877
890-3271-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	37854
890-3271-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37854
890-3276-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	37877
890-3276-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37877

Prep Batch: 37877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-37877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3276-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3276-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	_
880-20700-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-20700-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-37837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20700-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20700-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

Client: Carmona Resources

Job ID: 880-20700-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 38045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20700-1	H-1 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-2	H-2 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-3	H-3 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-4	H-4 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-5	H-5 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-6	H-6 (0-0.5')	Soluble	Solid	300.0	37837
MB 880-37837/1-A	Method Blank	Soluble	Solid	300.0	37837
LCS 880-37837/2-A	Lab Control Sample	Soluble	Solid	300.0	37837
LCSD 880-37837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37837
880-20700-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	37837
880-20700-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	37837

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Client: Carmona Resources Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Lab Sample ID: 880-20700-1

Lab Sample ID: 880-20700-2

Lab Sample ID: 880-20700-3

Lab Sample ID: 880-20700-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample ID: H-1 (0-0.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:15	CH	EET MID

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

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:40	CH	EET MID

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

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

	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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 19:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:48	CH	EET MID

Client Sample ID: H-4 (0-0.5')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

_	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	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID

Eurofins Midland

Matrix: Solid

Released to Imaging: 10/31/2023 10:42:44 AM

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Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-20700-4

Matrix: Solid

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

	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			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37854	10/26/22 08:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/26/22 20:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 22:57	CH	EET MID

Lab Sample ID: 880-20700-5

Client Sample ID: H-5 (0-0.5') Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37877	10/26/22 11:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/27/22 02:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 23:05	CH	EET MID

Client Sample ID: H-6 (0-0.5') Lab Sample ID: 880-20700-6

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38061	10/28/22 09:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38058	10/28/22 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38196	10/30/22 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			37988	10/27/22 09:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37877	10/26/22 11:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37857	10/27/22 02:50	SM	EET MID
Soluble	Leach	DI Leach			5.98 g	50 mL	37837	10/25/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38045	10/27/22 23:30	CH	EET MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-20700-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Texas NELAP T104704400-22-24 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for the agency does not offer certification. Analysis Method Prep Method Matrix Analyte Solid Total TDH	Authority	Pr	ogram	Identification Number	Expiration Date			
the agency does not offer certification. Analysis Method Prep Method Matrix Analyte	exas	NE	ELAP	T104704400-22-24	06-30-23			
	The following englytes	are included in this report by	it the laboratory is not cortifi	ad but ha agreeming outbority. This list was	arinalisala analistaa far			
	the agency does not off	er certification.	•		ay include analytes for			
Total BTEX Solid Total BTEX	the agency does not off Analysis Method 8015 NM	er certification.	Matrix Solid	Analyte Total TPH	ay include analytes for			

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Method Summary

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20700-1

SDG: Eddy County, New Mexico

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20700-1 SDG: Eddy County, New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20700-1	H-1 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-2	H-2 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-3	H-3 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-4	H-4 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-5	H-5 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20700-6	H-6 (0-0.5')	Solid	10/24/22 00:00	10/25/22 09:36

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Bounny a Our J	Comments:		H-6 (0-0 5)	H-5 (0-0 5')	H-4 (0-0 5')		H-2 (0-0.5')		Sample Identification	otal Containers	Sample Custody Seals Yes N	Cooler Custody Seals Yes N	Received Intact: Yes	SAMPLE RECEIPT Remp	PO#		Project Location Eddy Co	Project Number	Project Name S	Phone 432-813-6823	City, State ZIP Midland, TX 79701	Address. 310 W Wall St Ste 415	y Name	Project Manager Conner Moehring
Relinquished by (Signature)			10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	Date Time	Corrected Temperature	No N/A Temperature Reading	No (N/A) Correction Factor	No Thermometer ID	Temp Blank. Yes No))	CRM	Eddy County, New Mexico	1155	Shell Federal		91	te 415	rces	
			×	×	×	×	×	×	Soil	erature	ading	or.		Wet Ice			Due Date	Routine	Turn Around	Email G	0	A	0	В
			G	6	6	6	6	G	Water Comp	Ċ	O.C	130	te	OK KeY))			Rush	ound	Granth@fort.com	City, State ZIP	Address	Company Name	Bill to (if different)
Date/Time		A CONTRACTOR OF THE CONTRACTOR	1 ×	1 ×	1 ×	_1 ×	1 ×	1 ×	# of Cont		В	Pa		ete:	s			Pres.			Midle	6101	Fask	Gran
1 me			×	×	×	×	×	×	TPI	H 801		GR			+ M	RO)					Midland, Texas 79707	6101 Holiday Hill Road	Fasken Oil and Ranch	Grant Huckabay
																			AN)7	ad	19	
Re																			VALYSIS REQUEST					
Received by (Signature)		880-20700 Chain of Custody																	QUEST	Deliverables, EDD	Reporting Level II Level III ST/UST	State of Project:	Program: UST/PSTPRP prownfields	Work
		Sustody						120	Sample C	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na ₂ S ₂ O ₃ Na ₂ SO ₃	Nation NADIO	H.PO. HB	H-S0, H-	HO HO	Page 1	None NO	Preservat	ADaPT Other	□ST/UST □RRP		☐ rownfields ☐ RC	Work Order Comments
Date/Time								500	Sample Comments	Acid SAPC	子 Y Zn			-	NaOH Na	MeCH Me	OI Water n ₂ O	DI Water II O	Preservative Codes		□Level IV □		perfund	

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Work Order No: 20100

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-20700-1

SDG Number: Eddy County, New Mexico

Login Number: 20700 List Source: Eurofins Midland
List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20701-1

Laboratory Sample Delivery Group: Eddy County, New Mexico

Client Project/Site: Shell Federal

For:

Carmona Resources 310 W Wall St Ste 415 Midland, Texas 79701

Attn: Mike Carmona

SKRAMER

Authorized for release by: 10/31/2022 4:43:16 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

..... Links

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 10/31/2023 10:42:44 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

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Client: Carmona Resources Project/Site: Shell Federal Laboratory Job ID: 880-20701-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Qualifiers

GC	VOA
Qual	lifier

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

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

U

Abbreviation	These commonly used abbreviations may or may not be present in this report.								
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis								
%R	Percent Recovery								
CFL	Contains Free Liquid								
CFU	Colony Forming Unit								
CNF	Contains No Free Liquid								
DER	Duplicate Error Ratio (normalized absolute difference)								
Dil Fac	Dilution Factor								
DL	Detection Limit (DoD/DOE)								
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample								
DLC	Decision Level Concentration (Radiochemistry)								

MCL MDA

EDL

LOD

LOQ

Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin)

ML MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

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

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

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

PRES Presumptive **Quality Control** QC

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Job ID: 880-20701-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-20701-1

Receipt

The samples were received on 10/25/2022 9:36 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 0.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-20701-1), S-1 (1.5') (880-20701-2), S-1 (2') (880-20701-3), S-2 (0-1') (880-20701-4), S-2 (1.5') (880-20701-5), S-2 (2') (880-20701-6), S-2 (3') (880-20701-7), S-3 (0-1') (880-20701-8), S-3 (1.5') (880-20701-9), S-3 (2') (880-20701-10), S-3 (3') (880-20701-11), S-4 (0-1') (880-20701-12), S-4 (1.5') (880-20701-13), S-4 (2') (880-20701-14), S-4 (3') (880-20701-15), S-4 (4') (880-20701-16), S-5 (0-1') (880-20701-17), S-5 (1.5') (880-20701-18), S-5 (2') (880-20701-19) and S-5 (3') (880-20701-20).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38029 and analytical batch 880-38173 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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.

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Client: Carmona Resources

Job ID: 880-20701-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

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

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Toluene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Ethylbenzene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
m-Xylene & p-Xylene	<0.402	U	0.402		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
o-Xylene	<0.201	U	0.201		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Xylenes, Total	<0.402	U	0.402		mg/Kg		10/27/22 15:04	10/30/22 16:09	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				10/27/22 15:04	10/30/22 16:09	100
1,4-Difluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 16:09	100
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.402	U	0.402		mg/Kg			10/31/22 10:07	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.2		49.8		mg/Kg			10/31/22 14:18	1
•		nice (DBO)	(CC)						
Method: SW846 8015B NM - D	liesel Range Orga	illics (DRO)	(80)						
Method: SW846 8015B NM - D Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

		(- /	\ - /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	91.2		49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 130				10/26/22 16:08	10/28/22 22:18	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	110		70 - 130	10/26/22 16:08	10/28/22 22:18	1
	o-Terphenyl	106		70 - 130	10/26/22 16:08	10/28/22 22:18	1
ſ	_						

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifie	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	18300	248	mg/Kg			10/27/22 17:22	50	

Client Sample ID: S-1 (1.5')

Date Collected: 10/24/22 00:00

Matrix: Solid

Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1 F2	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.00396		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
o-Xylene	<0.00198	U F2	0.00198		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Xylenes, Total	<0.00396	U F1 F2	0.00396		mg/Kg		10/27/22 15:04	10/30/22 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				10/27/22 15:04	10/30/22 13:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 13:05	1

Eurofins Midland

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Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	1
	_									

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		ma/Ka			10/31/22 14:18	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/28/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/26/22 16:08	10/28/22 23:22	1
o-Terphenyl	89		70 - 130				10/26/22 16:08	10/28/22 23:22	1

Method: MCAWW 300.0 - Anions, Id	on Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.99		mg/Kg			10/27/22 17:47	1

Client Sample ID: S-1 (2') Lab Sample ID: 880-20701-3 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Released to Imaging: 10/31/2023 10:42:44 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	-
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 13:26	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 13:26	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 13:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130				10/27/22 15:04	10/30/22 13:26	
4.4.000	99		70 - 130				10/07/00 15 01	40/20/00 42:00	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald			MDI	Unit	n	10/27/22 15:04	10/30/22 13:26	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	11-24				
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 10:07	Dil Fac
	- Total BTEX Cald Result <0.00399	Qualifier U	RL 0.00399	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00399 esel Range Organ	Qualifier U	RL 0.00399	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg		Prepared	Analyzed 10/31/22 10:07	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00399 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.8		mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00399 GC) RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/31/22 10:07 Analyzed 10/31/22 14:18	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dia Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8 diesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 0.00399 GC) RL 49.8 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 10/31/22 10:07 Analyzed 10/31/22 14:18 Analyzed	Dil Fac

Job ID: 880-20701-1

SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Date Received: 10/25/22 09:36

Client: Carmona Resources

Project/Site: Shell Federal

Lab Sample ID: 880-20701-3 Date Collected: 10/24/22 00:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/26/22 16:08	10/28/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/26/22 16:08	10/28/22 23:44	1
o-Terphenyl	111		70 - 130				10/26/22 16:08	10/28/22 23:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	120		4.95		mg/Kg			10/27/22 17:56	1

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

Lab Sample ID: 880-20701-4 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Method: SW846 8021B - V	/olatile Organic Compounds (GC))

Welliou. 344040 0021B - Volat	ne Organic Comp	ourius (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/27/22 15:04	10/30/22 13:46	1
1 1 Differenchemanne (Cerry)	102		70 120				10/07/00 15:04	10/20/22 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/27/22 15:04	10/30/22 13:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/27/22 15:04	10/30/22 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	 2	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	10/26/22 16:08	10/29/22 00:05	1
o-Terphenyl	95		70 - 130	10/26/22 16:08	10/29/22 00:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2240	50.5	mg/l	Kg		10/27/22 18:04	10

Client: Carmona Resources

Job ID: 880-20701-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00275		0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
o-Xylene	0.00232		0.00199		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/27/22 15:04	10/30/22 14:07	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/27/22 15:04	10/30/22 14:07	1
- Method: TAL SOP Total BTEX	(- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00507		0.00398		mg/Kg			10/31/22 10:07	1
Method: SW846 8015 NM - Die	esel 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			10/31/22 14:18	1
- Method: SW846 8015B NM - D	Diesel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				10/26/22 16:08	10/29/22 00:26	1
o-Terphenyl	113		70 - 130				10/26/22 16:08	10/29/22 00:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	2270		50.0		mg/Kg			10/27/22 18:12	10		

Client Sample ID: S-2 (2')

Date Collected: 10/24/22 00:00

Lab Sample ID: 880-20701-6

Matrix: Solid

Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/22 15:04	10/30/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	-	70 - 130				10/27/22 15:04	10/30/22 14:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/27/22 15:04	10/30/22 14:27	1

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Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-20701-6

Matrix: Solid

Client Sample ID: S-2 (2') Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 mg/Kg 10/31/22 10:07

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

Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 10/31/22 14:18 mg/Kg

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

Result Qualifier RL MDL Unit Analyte D Prepared Dil Fac Analyzed <49.9 U 49.9 10/26/22 16:08 10/29/22 00:48 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 10/26/22 16:08 10/29/22 00:48 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 10/26/22 16:08 10/29/22 00:48 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 101 70 - 130 10/26/22 16:08 10/29/22 00:48 99 70 - 130 10/26/22 16:08 10/29/22 00:48 o-Terphenyl

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac Chloride 1540 24.9 mg/Kg 10/27/22 18:37

Client Sample ID: S-2 (3') Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00 Matrix: Solid Date Received: 10/25/22 09:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 14:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 14:48	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	10/27/22 15:04	10/30/22 14:48	1
1,4-Difluorobenzene (Surr)	96	70 - 130	10/27/22 15:04	10/30/22 14:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier Dil Fac RL MDL Unit D Prepared Analyzed Total BTEX <0.00402 U 0.00402 mg/Kg 10/31/22 10:07

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

Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed Total TPH <50.0 U 10/31/22 14:18 50.0 mg/Kg

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

Released to Imaging: 10/31/2023 10:42:44 AM

		(- /	\ - /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1

C10-C28)

Client: Carmona Resources Project/Site: Shell Federal

Date Received: 10/25/22 09:36

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3') Date Collected: 10/24/22 00:00

Lab Sample ID: 880-20701-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/26/22 16:08	10/29/22 01:10	1
o-Terphenyl	93		70 - 130				10/26/22 16:08	10/29/22 01:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	1150		24.8		mg/Kg			10/27/22 18:46	5	

Client Sample ID: S-3 (0-1') Lab Sample ID: 880-20701-8 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 15:08	
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 15:08	,
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 15:08	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	83		70 - 130				10/27/22 15:04	10/30/22 15:08	
1,4-Difluorobenzene (Surr)	98		70 - 130				10/27/22 15:04	10/30/22 15:08	
- Method: TAL SOP Total BTEX - T	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	-
Analyte	Result						Pronarod	Δnalvzod	Dil Fa
Total TPH	315			WIDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 14:18	
Total TPH Mothod: SW846 8045R NM Dios		<u> </u>	50.0	WIDE			Prepared		
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	50.0 (GC)		mg/Kg			10/31/22 14:18	
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)		mg/Kg	<u>D</u>	Prepared	10/31/22 14:18 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)		mg/Kg			10/31/22 14:18	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)		mg/Kg		Prepared	10/31/22 14:18 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:31	Dil Fa
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:31 10/29/22 01:31	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 315 <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:31 10/29/22 01:31	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 315 <50.0 %Recovery	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared	10/31/22 14:18 Analyzed 10/29/22 01:31 10/29/22 01:31 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:31 10/29/22 01:31 Analyzed 10/29/22 01:31	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	Analyzed 10/29/22 01:31 10/29/22 01:31 10/29/22 01:31 Analyzed 10/29/22 01:31	Dil Fac

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Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-9

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	
Toluene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 15:28	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 15:28	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 15:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130				10/27/22 15:04	10/30/22 15:28	
1,4-Difluorobenzene (Surr)	119		70 - 130				10/27/22 15:04	10/30/22 15:28	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 14:18	
Analyte	Result	Qualifier U	RL 49.8	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)		mg/Kg		<u> </u>	10/31/22 14:18	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:53	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	10/31/22 14:18 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:53	
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:53 10/29/22 01:53	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared	10/31/22 14:18 Analyzed 10/29/22 01:53 10/29/22 01:53 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:53 10/29/22 01:53 Analyzed 10/29/22 01:53	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared	10/31/22 14:18 Analyzed 10/29/22 01:53 10/29/22 01:53 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 01:53 10/29/22 01:53 Analyzed 10/29/22 01:53	Dil Fa

Date Collected: 10/24/22 00:00
Date Received: 10/25/22 09:36

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 10/27/22 15:04 10/30/22 15:49 Toluene <0.00200 U 0.00200 mg/Kg 10/27/22 15:04 10/30/22 15:49 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/27/22 15:04 10/30/22 15:49 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 10/27/22 15:04 10/30/22 15:49 o-Xylene <0.00200 U 0.00200 mg/Kg 10/27/22 15:04 10/30/22 15:49 <0.00399 U 0.00399 10/27/22 15:04 10/30/22 15:49 Xylenes, Total mg/Kg %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 95 70 - 130 10/27/22 15:04 10/30/22 15:49 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 96 70 - 130 10/27/22 15:04 10/30/22 15:49

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-20701-10

Client Sample ID: S-3 (2')

Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Chloride

Lab Sample ID: 880-20701-10 Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Matrix: Solid

10/27/22 19:11

Method: TAL SOP Total BTEX - Total BTEX Calculation Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total BTEX < 0.00399 0.00399 10/31/22 10:07 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 10/31/22 14:18 mg/Kg Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Analyte D Prepared Dil Fac Analyzed <49.9 U 49.9 10/26/22 16:08 10/29/22 02:15 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 10/26/22 16:08 10/29/22 02:15 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 10/26/22 16:08 10/29/22 02:15 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 120 70 - 130 10/26/22 16:08 10/29/22 02:15 o-Terphenyl 115 70 - 130 10/26/22 16:08 10/29/22 02:15 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac

Client Sample ID: S-3 (3') Lab Sample ID: 880-20701-11

25.0

mg/Kg

Date Collected: 10/24/22 00:00 **Matrix: Solid** Date Received: 10/25/22 09:36

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

3310

Welliou. 344040 002 1D - Volat	ne Organic Comp	ounus (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/27/22 15:04	10/30/22 17:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/27/22 15:04	10/30/22 17:59	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/31/22 10:07	1

Method: SW846 8015 NM - Diesel I	Range Organi	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

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

Michiga. Offoro ou lob Min - Dic.	sei italige Orga	ilica (Bito) (t	30)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1
C10-C28)									

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-20701-11

Matrix: Solid

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/26/22 16:08	10/29/22 02:59	1
o-Terphenyl	110		70 - 130				10/26/22 16:08	10/29/22 02:59	1

Method: MCAWW 300.0 - Anions, Id	on Chromato	graphy - So	luble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.00		mg/Kg			10/27/22 19:19	1

Client Sample ID: S-4 (0-1')

Date Collected: 10/24/22 00:00

Lab Sample ID: 880-20701-12

Matrix: Solid

Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0992	U	0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Toluene	<0.0992	U	0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Ethylbenzene	0.106		0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
m-Xylene & p-Xylene	<0.198	U	0.198		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
o-Xylene	0.439		0.0992		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Xylenes, Total	0.439		0.198		mg/Kg		10/27/22 15:04	10/30/22 21:03	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				10/27/22 15:04	10/30/22 21:03	5
1,4-Difluorobenzene (Surr)	83		70 - 130				10/27/22 15:04	10/30/22 21:03	5
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.545		0.198		mg/Kg			10/31/22 10:07	
Analyte Total TPH	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
			50.0		ma/Ka			10/31/22 14:18	
-		wice (DDO)	50.0		mg/Kg			10/31/22 14:18	
: Method: SW846 8015B NM - Dies	sel Range Orga	,	(GC)	MDI		D	Dronovod		
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	,	(GC)	MDL		<u>D</u>	Prepared 10/26/22 16:08		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	,	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 170	Qualifier	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	10/26/22 16:08	Analyzed 10/29/22 03:21	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 170 2610	Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	10/26/22 16:08 10/26/22 16:08	Analyzed 10/29/22 03:21 10/29/22 03:21	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 170 2610 <50.0	Qualifier U	(GC) RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/26/22 16:08 10/26/22 16:08 10/26/22 16:08	Analyzed 10/29/22 03:21 10/29/22 03:21 10/29/22 03:21	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 170 2610	Qualifier U	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared	Analyzed 10/29/22 03:21 10/29/22 03:21 10/29/22 03:21 Analyzed	Dil Fa
	Result 170 2610	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	Analyzed 10/29/22 03:21 10/29/22 03:21 10/29/22 03:21 Analyzed 10/29/22 03:21	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 170 2610 < 50.0 %Recovery 105 104 s, lon Chromato.	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	10/26/22 16:08 10/26/22 16:08 10/26/22 16:08 Prepared 10/26/22 16:08	Analyzed 10/29/22 03:21 10/29/22 03:21 10/29/22 03:21 Analyzed 10/29/22 03:21	Dil Fac

Client: Carmona Resources Job ID: 880-20701-1 SDG: Eddy County, New Mexico Project/Site: Shell Federal

Client Sample ID: S-4 (1.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Lab Sample ID: 880-20701-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/27/22 15:04	10/30/22 18:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/27/22 15:04	10/30/22 18:19	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX <0.00398 0.00398 mg/Kg 10/31/22 10:07 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 10/31/22 14:18 mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/26/22 16:08	10/29/22 03:43	1
o-Terphenyl	94		70 - 130				10/26/22 16:08	10/29/22 03:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 101 Chloride 10400 mg/Kg 10/27/22 19:53 20

Client Sample ID: S-4 (2') Lab Sample ID: 880-20701-14 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Ethylbenzene	0.00340		0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
m-Xylene & p-Xylene	0.00801		0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Xylenes, Total	0.00801		0.00398		mg/Kg		10/27/22 15:04	10/30/22 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				10/27/22 15:04	10/30/22 18:40	1
1,4-Difluorobenzene (Surr)	120		70 - 130				10/27/22 15:04	10/30/22 18:40	1

Client: Carmona Resources

Job ID: 880-20701-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-14

10/29/22 04:05

10/26/22 16:08

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0114		0.00398		mg/Kg			10/31/22 10:07	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	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1
Method: SW846 8015B NM - Dies	•		• •						
Made at CWOAC COAFD NM Disa	- I D O	-! (DDO)	(00)						
Method: SW846 8015B NM - Dies Analyte	•	nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 10/26/22 16:08	Analyzed 10/29/22 04:05	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U	RL	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	10/26/22 16:08	10/29/22 04:05	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	10/26/22 16:08	10/29/22 04:05	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	RL 50.0	MDL	mg/Kg	<u> </u>	10/26/22 16:08 10/26/22 16:08	10/29/22 04:05	Dil Fac

 Analyte
 Result Chloride
 Qualifier
 RL MDL Unit mg/Kg
 D Prepared Di Prepared (Name)
 Analyzed Di Prepared (Name)
 Di Prepared (Name)
 Analyzed (Name)
 Di Prepared (Name)
 Analyzed (Name)
 Di Prepared (Name)
 Analyzed (Name)
 Di Prepared (Name)
 Di Prepared (Name)
 Analyzed (Name)
 Di Prepared (Name

70 - 130

90

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Client Sample ID: S-4 (3')

Date Collected: 10/24/22 00:00

Lab Sample ID: 880-20701-15

Matrix: Solid

Date Received: 10/25/22 09:36

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/27/22 15:04	10/30/22 19:00	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 19:00	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/27/22 15:04	10/30/22 19:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	78		70 - 130				10/27/22 15:04	10/30/22 19:00	
Method: TAL SOP Total BTEX			70 - 130	MD		_	10/27/22 15:04	10/30/22 19:00	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	10/27/22 15:04 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL 0.00401		mg/Kg		Prepared	Analyzed 10/31/22 10:07	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 sel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 sel Range Organ Result <50.0 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 ——————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00401 sel Range Organ Result <50.0 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/31/22 10:07 Analyzed 10/31/22 14:18	Dil Fa

Client Sample ID: S-4 (3')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Client: Carmona Resources
Project/Site: Shell Federal

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

3DG. Eddy County, New Mexico

Lab Sample ID: 880-20701-15

Matrix: Solid

ı	
ı	Mothod: SW946 904EP NM Discal Banga Organica (DDO) (CC) (Continued)
ı	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:27	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
95		70 - 130				10/26/22 16:08	10/29/22 04:27	1
93		70 - 130				10/26/22 16:08	10/29/22 04:27	1
	<50.0 **Recovery 95	95	<50.0	<50.0	<50.0	<50.0	<50.0	Kecovery Qualifier Limits Prepared Analyzed 95 70 - 130 10/26/22 16:08 10/29/22 04:27

Method: MCAWW 300.0 - Anions	, Ion Chromatography - Soluble
Analyto	Popult Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8490		99.2		mg/Kg			10/27/22 20:26	20

Client Sample ID: S-4 (4')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-20701-16

10/31/22 09:15 10/31/22 12:03

Matrix: Solid

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

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/31/22 09:15	10/31/22 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	44	S1-	70 - 130				10/31/22 09:15	10/31/22 12:03	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	:
Total BTEX	< 0.00401	U	0.00401	ma/Ka			10/31/22 15:09	1	i

70 - 130

Method: SW846 8015 NM - Diesel Range Organics (I	DRO)	(GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 14:18	1

Method	d: SW846 8015B	NM - Diesel Ran	ge Organics	(DRO) (GC)
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mourou. Otto-to co rob rim Broso	i italigo Olga	mos (Bito)	(00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 04:49	1
Surrogate	%Recovery	Qualifier	l imits				Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prep	oared	Analyzed	DII Fac
1-Chlorooctane	91		70 - 130	10/26/2	22 16:08	10/29/22 04:49	1
o-Terphenyl	91		70 - 130	10/26/2	22 16:08	10/29/22 04:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		25.0		mg/Kg			10/27/22 20:35	5

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13

Job ID: 880-20701-1

Client: Carmona Resources Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1') Lab Sample ID: 880-20701-17

Date Collected: 10/24/22 00:00	Matrix: Solid
Date Received: 10/25/22 09:36	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	
Toluene	0.00256		0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 19:41	
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/22 15:04	10/30/22 19:41	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/22 15:04	10/30/22 19:41	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				10/27/22 15:04	10/30/22 19:41	
1,4-Difluorobenzene (Surr)	113		70 - 130				10/27/22 15:04	10/30/22 19:41	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/31/22 10:07	-
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 14:18	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:11	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:11	•
C10-C28) OII Range Organics (Over C28-C36)	~10.0	11	40.0		malka		10/26/22 16:08	10/20/22 05:11	
Oil Range Organics (Over Czo-C36)	<49.9	U	49.9		mg/Kg		10/20/22 10:00	10/29/22 05:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130				10/26/22 16:08	10/29/22 05:11	
			70 ₋ 130				10/26/22 16:08	10/29/22 05:11	
o-Terphenyl	97		70 - 700						
- · · · · · · · · · · · · · · · · · · ·		ography - So							
o-Terphenyl Method: MCAWW 300.0 - Anions Analyte	s, Ion Chromato	ography - So Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fa

Chloride 2450 49.9 mg/Kg 10/27/22 20:43 Client Sample ID: S-5 (1.5') Lab Sample ID: 880-20701-18

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/22 15:04	10/30/22 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/27/22 15:04	10/30/22 20:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/27/22 15:04	10/30/22 20:01	1

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Matrix: Solid

Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

2150

Lab Sample ID: 880-20701-18

10/27/22 20:51

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/22 10:07	1
Method: SW846 8015 NM - Diesel	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			10/31/22 14:18	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		10/26/22 16:08	10/29/22 05:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:33	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/26/22 16:08	10/29/22 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				10/26/22 16:08	10/29/22 05:33	1
o-Terphenyl	87		70 - 130				10/26/22 16:08	10/29/22 05:33	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	aranhy - Se	oluble						
metriod. moATTT 300.0 - Allions,	ion omomate	grapily - St	JIUDIE						

Client Sample ID: S-5 (2') Lab Sample ID: 880-20701-19 **Matrix: Solid**

25.0

mg/Kg

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00253		0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/22 15:04	10/30/22 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/27/22 15:04	10/30/22 20:22	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 RL	MDL	Unit	D	10/27/22 15:04 Prepared	10/30/22 20:22 Analyzed	·
		culation	70 - 130				10/27/22 15:04	10/30/22 20:22	1
	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>	10/27/22 15:04 Prepared	Analyzed 10/31/22 10:07	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 10/31/22 10:07	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0		mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 10/31/22 10:07 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die Method: SW846 8015B NM - Die Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/31/22 10:07 Analyzed 10/31/22 14:18	Dil Fac

Job ID: 880-20701-1

SDG: Eddy County, New Mexico

Client Sample ID: S-5 (2')

Client: Carmona Resources

Project/Site: Shell Federal

Lab Sample ID: 880-20701-19

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/29/22 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				10/26/22 16:08	10/29/22 05:54	1
o-Terphenyl	96		70 - 130				10/26/22 16:08	10/29/22 05:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 24.9 10/27/22 21:00 Chloride 1600 mg/Kg

Client Sample ID: S-5 (3') Lab Sample ID: 880-20701-20 Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 09:15	10/31/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130				10/31/22 09:15	10/31/22 12:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130				10/31/22 09:15	10/31/22 12:24	1
Method: SW846 8015 NM - Diese Analyte	•		•	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 14:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0		mg/Kg	<u> </u>	· · ·	10/31/22 14:18	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier	70.0 (GC)		mg/Kg	<u>D</u>	Prepared	10/31/22 14:18 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg	<u> </u>	· · ·	10/31/22 14:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	70.0 (GC)		mg/Kg	<u> </u>	Prepared	10/31/22 14:18 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg	<u> </u>	Prepared 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 06:16	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/26/22 16:08 10/26/22 16:08	10/31/22 14:18 Analyzed 10/29/22 06:16 10/29/22 06:16	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 10/26/22 16:08 10/26/22 16:08	Analyzed 10/29/22 06:16 10/29/22 06:16	1 Dil Fac

Eurofins Midland

Dil Fac

Analyzed

10/27/22 21:08

RL

25.2

MDL Unit

mg/Kg

Prepared

Analyte

Chloride

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Surrogate Summary

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED74	Percent Surrogate Recovery (Acceptance Limits
	011 (0 1 15	BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	·
80-20701-1	S-1 (0-1')	75	96	
80-20701-2	S-1 (1.5')	86	96	
80-20701-2 MS	S-1 (1.5')	138 S1+	104	
80-20701-2 MSD	S-1 (1.5')	83	95	
80-20701-3	S-1 (2')	90	99	
80-20701-4	S-2 (0-1')	101	103	
80-20701-5	S-2 (1.5')	102	113	
80-20701-6	S-2 (2')	96	97	
80-20701-7	S-2 (3')	98	96	
80-20701-8	S-3 (0-1')	83	98	
80-20701-9	S-3 (1.5')	119	119	
80-20701-10	S-3 (2')	95	96	
80-20701-11	S-3 (3')	113	92	
80-20701-12	S-4 (0-1')	60 S1-	83	
80-20701-13	S-4 (1.5')	93	97	
80-20701-14	S-4 (2')	109	120	
80-20701-15	S-4 (3')	78	93	
80-20701-16	S-4 (4')	44 S1-	77	
30-20701-17	S-5 (0-1')	98	113	
80-20701-18	S-5 (1.5')	104	96	
80-20701-19	S-5 (2')	105	108	
30-20701-20	S-5 (3')	51 S1-	79	
90-3303-A-2-B MS	Matrix Spike	105	102	
90-3303-A-2-C MSD	Matrix Spike Duplicate	95	95	
CS 880-38029/1-A	Lab Control Sample	89	92	
CS 880-38223/1-A	Lab Control Sample	97	97	
CSD 880-38029/2-A	Lab Control Sample Dup	72	94	
CSD 880-38223/2-A	Lab Control Sample Dup	95	98	
1B 880-38029/5-A	Method Blank	114	103	
IB 880-38223/5-A	Method Blank	99	91	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

-			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-20701-1	S-1 (0-1')	110	106
880-20701-1 MS	S-1 (0-1')	114	91
880-20701-1 MSD	S-1 (0-1')	85	79
880-20701-2	S-1 (1.5')	90	89
880-20701-3	S-1 (2')	113	111
880-20701-4	S-2 (0-1')	98	95
880-20701-5	S-2 (1.5')	116	113
880-20701-6	S-2 (2')	101	99
880-20701-7	S-2 (3')	95	93

Eurofins Midland

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20701-8	S-3 (0-1')	99	96	
880-20701-9	S-3 (1.5')	97	96	
880-20701-10	S-3 (2')	120	115	
880-20701-11	S-3 (3')	114	110	
880-20701-12	S-4 (0-1')	105	104	
880-20701-13	S-4 (1.5')	95	94	
880-20701-14	S-4 (2')	91	90	
880-20701-15	S-4 (3')	95	93	
880-20701-16	S-4 (4')	91	91	
880-20701-17	S-5 (0-1')	96	97	
880-20701-18	S-5 (1.5')	86	87	
880-20701-19	S-5 (2')	94	96	
880-20701-20	S-5 (3')	92	95	
LCS 880-37942/2-A	Lab Control Sample	125	105	
LCSD 880-37942/3-A	Lab Control Sample Dup	124	102	
MB 880-37942/1-A	Method Blank	84	85	

TCO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38029/5-A

Lab Sample ID: LCS 880-38029/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38173

Analysis Batch: 38173

Client Sample ID: Method Blank

Prep Type: Total/NA

Batch: 38029

		rep	ıyı
		Pre	рΒ

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/22 15:04	10/30/22 12:37	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/22 15:04	10/30/22 12:37	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/22 15:04	10/30/22 12:37	•

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/27/22 15:0	4 10/30/22 12:37	1
1.4-Difluorobenzene (Surr)	103		70 - 130	10/27/22 15:0	4 10/30/22 12:37	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38029

Prep Type: Total/NA

Prep Batch: 38029

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09535 mg/Kg 95 70 - 130 Toluene 0.100 0.1090 mg/Kg 109 70 - 130 0.100 103 Ethylbenzene 0.1032 mg/Kg 70 - 130 0.200 106 70 - 130 m-Xylene & p-Xylene 0.2114 mg/Kg 0.100 0.1102 70 - 130 o-Xylene mg/Kg 110

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 38173

Lab Sample ID: LCSD 880-38029/2-A

,	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1020		mg/Kg		102	70 - 130	7	35	
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	4	35	
Ethylbenzene	0.100	0.09483		mg/Kg		95	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	11	35	
o-Xvlene	0.100	0.09633		ma/Ka		96	70 - 130	13	35	

LCSD LCSD

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	72		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-20701-2 MS

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5') Prep Type: Total/NA

Prep Batch: 38029

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1 F2	0.100	0.01510	F1	mg/Kg		15	70 - 130	
Toluene	<0.00198	U	0.100	0.09894		mg/Kg		99	70 - 130	

Eurofins Midland

QC Sample Results

Client: Carmona Resources Job ID: 880-20701-1 SDG: Eddy County, New Mexico Project/Site: Shell Federal

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

Lab Sample ID: 880-20701-2 MS

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5')

Prep Type: Total/NA

Prep Batch: 38029

ı		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene	<0.00198	U	0.100	0.07238		mg/Kg		72	70 - 130	
	m-Xylene & p-Xylene	<0.00396	U F1 F2	0.200	0.1920		mg/Kg		96	70 - 130	
	o-Xylene	<0.00198	U F2	0.100	0.1035		mg/Kg		103	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	104		70 - 130		

Lab Sample ID: 880-20701-2 MSD

Matrix: Solid

Analysis Batch: 38173

Client Sample ID: S-1 (1.5')

Prep Type: Total/NA

Prep Batch: 38029

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit <0.00198 U F1 F2 0.0990 0.07780 F2 79 135 Benzene mg/Kg 70 - 130 35 Toluene <0.00198 U 0.0990 0.08744 88 70 - 130 mg/Kg 12 35 Ethylbenzene <0.00198 U 0.0990 0.07170 mg/Kg 72 70 - 130 1 35 m-Xylene & p-Xylene <0.00396 U F1 F2 0.198 0.1330 F1 F2 67 70 - 130 35 mg/Kg 36 0.0990 o-Xylene <0.00198 U F2 0.07051 F2 71 70 - 130 38 mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	83	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: MB 880-38223/5-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38223

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 09:15	10/31/22 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/22 09:15	10/31/22 11:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/31/22 09:15	10/31/22 11:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/31/22 09:15	10/31/22 11:00	1

Lab Sample ID: LCS 880-38223/1-A

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38223

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08506		mg/Kg		85	70 - 130
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09305		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130

Prep Batch: 38223

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 38223

QC Sample Results

Client: Carmona Resources Job ID: 880-20701-1 SDG: Eddy County, New Mexico Project/Site: Shell Federal

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

Lab Sample ID: LCS 880-38223/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38211

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.1022 102 70 - 130 mg/Kg

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

Lab Sample ID: LCSD 880-38223/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

0/ D		
%Rec		RPD
ec Limits	RPD	Limit
91 70 - 130	7	35
97 70 - 130	5	35
99 70 - 130	7	35
94 70 - 130	4	35
06 70 - 130	4	35
9	Rec Limits 91 70 - 130 97 70 - 130 99 70 - 130 94 70 - 130	Rec Limits RPD 91 70 - 130 7 97 70 - 130 5 99 70 - 130 7 94 70 - 130 4

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: 890-3303-A-2-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38211

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.0990	0.08354		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.0990	0.08996		mg/Kg		91	70 - 130
Ethylbenzene	<0.00200	U	0.0990	0.09006		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1808		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0990	0.1013		mg/Kg		102	70 - 130

	III 3	MIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3303-A-2-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 38211

Analysis Batch: 38211									Prep	Batch:	38223
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07830		mg/Kg		77	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08671		mg/Kg		87	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.07853		mg/Kg		78	70 - 130	14	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1517		mg/Kg		76	70 - 130	18	35
o-Xylene	<0.00200	U	0.100	0.08529		mg/Kg		85	70 - 130	17	35

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-3303-A-2-C MSD

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38223

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

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

Lab Sample ID: MB 880-37942/1-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37942

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/26/22 16:08	10/28/22 21:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	10/26/22 16:08	10/28/22 21:13	1
o-Terphenyl	85		70 - 130	10/26/22 16:08	10/28/22 21:13	1

Lab Sample ID: LCS 880-37942/2-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 37942

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	850.0		mg/Kg		85	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	938.7		mg/Kg		94	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	125	70 - 130
o-Terphenyl	105	70 - 130

Lab Sample ID: LCSD 880-37942/3-A

Matrix: Solid

Analysis Batch: 38052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37942

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	821.4		mg/Kg		82	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	922.0		mg/Kg		92	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qual	lifier Limits
1-Chlorooctane	124	70 - 130
o-Terphenyl	102	70 - 130

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-20701-1 MS

Matrix: Solid

Analysis Batch: 38052

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

Prep Type: Total/NA Prep Batch: 37942

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	743.9		mg/Kg		75	70 - 130	
Diesel Range Organics (Over C10-C28)	91.2		998	974.1		mg/Kg		88	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-20701-1 MSD Client Sample ID: S-1 (0-1') Prep Type: Total/NA

Matrix: Solid

Analysis

sis Batch: 38052						Batch: 37942
	Sample Sample	Spike	MSD MSD		%Rec	RPD

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.8 U 998 771.9 70 - 130 Gasoline Range Organics mg/Kg 77 4 20 (GRO)-C6-C10 Diesel Range Organics (Over 91.2 998 861.1 mg/Kg 77 70 - 130 12 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits

1-Chlorooctane 85 70 - 130 o-Terphenyl 79 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37801/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38044

MB MB

Analyte	Result	Qualifier	RL MDL Unit		RL WIDE UNIT D Prepared Analyzed		Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			10/27/22 16:57	1

Lab Sample ID: LCS 880-37801/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38044

	S	pike	LCS	LCS				%Rec	
Analyte	A	dded	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	254.8		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-37801/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 38044

Analysis Batch. 00044									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	255.1		mg/Kg		102	90 - 110		20

QC Sample Results

Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20701-1 MS Client Sample ID: S-1 (0-1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38044

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 18300 12400 29820 mg/Kg 93 90 - 110

Lab Sample ID: 880-20701-1 MSD Client Sample ID: S-1 (0-1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38044

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Qualifier Limits RPD Limit Analyte Added Result Unit D %Rec Chloride 18300 12400 31110 mg/Kg 103 90 - 110

Client Sample ID: S-3 (3') Lab Sample ID: 880-20701-11 MS **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38044

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 160 250 402.2 90 - 110 mg/Kg

Lab Sample ID: 880-20701-11 MSD

Matrix: Solid

Analysis Batch: 38044

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 402.9 Chloride 160 250 97 90 - 110 20 mg/Kg

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 38029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-20701-1	S-1 (0-1')	Total/NA	Solid	5035	
880-20701-2	S-1 (1.5')	Total/NA	Solid	5035	
880-20701-3	S-1 (2')	Total/NA	Solid	5035	
880-20701-4	S-2 (0-1')	Total/NA	Solid	5035	
880-20701-5	S-2 (1.5')	Total/NA	Solid	5035	
880-20701-6	S-2 (2')	Total/NA	Solid	5035	
880-20701-7	S-2 (3')	Total/NA	Solid	5035	
880-20701-8	S-3 (0-1')	Total/NA	Solid	5035	
880-20701-9	S-3 (1.5')	Total/NA	Solid	5035	
880-20701-10	S-3 (2')	Total/NA	Solid	5035	
880-20701-11	S-3 (3')	Total/NA	Solid	5035	
880-20701-12	S-4 (0-1')	Total/NA	Solid	5035	
880-20701-13	S-4 (1.5')	Total/NA	Solid	5035	
880-20701-14	S-4 (2')	Total/NA	Solid	5035	
880-20701-15	S-4 (3')	Total/NA	Solid	5035	
880-20701-17	S-5 (0-1')	Total/NA	Solid	5035	
880-20701-18	S-5 (1.5')	Total/NA	Solid	5035	
880-20701-19	S-5 (2')	Total/NA	Solid	5035	
MB 880-38029/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38029/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38029/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20701-2 MS	S-1 (1.5')	Total/NA	Solid	5035	
880-20701-2 MSD	S-1 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 38173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8021B	38029
880-20701-2	S-1 (1.5')	Total/NA	Solid	8021B	38029
880-20701-3	S-1 (2')	Total/NA	Solid	8021B	38029
880-20701-4	S-2 (0-1')	Total/NA	Solid	8021B	38029
880-20701-5	S-2 (1.5')	Total/NA	Solid	8021B	38029
880-20701-6	S-2 (2')	Total/NA	Solid	8021B	38029
880-20701-7	S-2 (3')	Total/NA	Solid	8021B	38029
880-20701-8	S-3 (0-1')	Total/NA	Solid	8021B	38029
880-20701-9	S-3 (1.5')	Total/NA	Solid	8021B	38029
880-20701-10	S-3 (2')	Total/NA	Solid	8021B	38029
880-20701-11	S-3 (3')	Total/NA	Solid	8021B	38029
880-20701-12	S-4 (0-1')	Total/NA	Solid	8021B	38029
880-20701-13	S-4 (1.5')	Total/NA	Solid	8021B	38029
880-20701-14	S-4 (2')	Total/NA	Solid	8021B	38029
880-20701-15	S-4 (3')	Total/NA	Solid	8021B	38029
880-20701-17	S-5 (0-1')	Total/NA	Solid	8021B	38029
880-20701-18	S-5 (1.5')	Total/NA	Solid	8021B	38029
880-20701-19	S-5 (2')	Total/NA	Solid	8021B	38029
MB 880-38029/5-A	Method Blank	Total/NA	Solid	8021B	38029
LCS 880-38029/1-A	Lab Control Sample	Total/NA	Solid	8021B	38029
LCSD 880-38029/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38029
880-20701-2 MS	S-1 (1.5')	Total/NA	Solid	8021B	38029
880-20701-2 MSD	S-1 (1.5')	Total/NA	Solid	8021B	38029

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Client: Carmona Resources

Job ID: 880-20701-1
Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 38211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-16	S-4 (4')	Total/NA	Solid	8021B	38223
880-20701-20	S-5 (3')	Total/NA	Solid	8021B	38223
MB 880-38223/5-A	Method Blank	Total/NA	Solid	8021B	38223
LCS 880-38223/1-A	Lab Control Sample	Total/NA	Solid	8021B	38223
LCSD 880-38223/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38223
890-3303-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	38223
890-3303-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38223

Prep Batch: 38223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-16	S-4 (4')	Total/NA	Solid	5035	
880-20701-20	S-5 (3')	Total/NA	Solid	5035	
MB 880-38223/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38223/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38223/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3303-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
890-3303-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-20701-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-6	S-2 (2')	Total/NA	Solid	Total BTEX	
880-20701-7	S-2 (3')	Total/NA	Solid	Total BTEX	
880-20701-8	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-9	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-10	S-3 (2')	Total/NA	Solid	Total BTEX	
880-20701-11	S-3 (3')	Total/NA	Solid	Total BTEX	
880-20701-12	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-13	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-14	S-4 (2')	Total/NA	Solid	Total BTEX	
880-20701-15	S-4 (3')	Total/NA	Solid	Total BTEX	
880-20701-16	S-4 (4')	Total/NA	Solid	Total BTEX	
880-20701-17	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-20701-18	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-20701-19	S-5 (2')	Total/NA	Solid	Total BTEX	
880-20701-20	S-5 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 37942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-6	S-2 (2')	Total/NA	Solid	8015NM Prep	

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Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 37942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-7	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-10	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-20701-11	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-14	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-20701-15	S-4 (3')	Total/NA	Solid	8015NM Prep	
880-20701-16	S-4 (4')	Total/NA	Solid	8015NM Prep	
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-20701-19	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-20701-20	S-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-37942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20701-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-20701-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-3	S-1 (2')	Total/NA	Solid	8015B NM	37942
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-6	S-2 (2')	Total/NA	Solid	8015B NM	37942
880-20701-7	S-2 (3')	Total/NA	Solid	8015B NM	37942
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-10	S-3 (2')	Total/NA	Solid	8015B NM	37942
880-20701-11	S-3 (3')	Total/NA	Solid	8015B NM	37942
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-14	S-4 (2')	Total/NA	Solid	8015B NM	37942
880-20701-15	S-4 (3')	Total/NA	Solid	8015B NM	37942
880-20701-16	S-4 (4')	Total/NA	Solid	8015B NM	37942
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015B NM	37942
880-20701-19	S-5 (2')	Total/NA	Solid	8015B NM	37942
880-20701-20	S-5 (3')	Total/NA	Solid	8015B NM	37942
MB 880-37942/1-A	Method Blank	Total/NA	Solid	8015B NM	37942
LCS 880-37942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37942
LCSD 880-37942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37942
880-20701-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	37942
880-20701-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	37942

Analysis Batch: 38294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Total/NA	Solid	8015 NM	

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Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 38294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-20701-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-20701-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-20701-4	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-20701-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-20701-6	S-2 (2')	Total/NA	Solid	8015 NM	
880-20701-7	S-2 (3')	Total/NA	Solid	8015 NM	
880-20701-8	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-20701-9	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-20701-10	S-3 (2')	Total/NA	Solid	8015 NM	
880-20701-11	S-3 (3')	Total/NA	Solid	8015 NM	
880-20701-12	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-20701-13	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-20701-14	S-4 (2')	Total/NA	Solid	8015 NM	
880-20701-15	S-4 (3')	Total/NA	Solid	8015 NM	
880-20701-16	S-4 (4')	Total/NA	Solid	8015 NM	
880-20701-17	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-20701-18	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-20701-19	S-5 (2')	Total/NA	Solid	8015 NM	
880-20701-20	S-5 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-20701-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20701-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-20701-3	S-1 (2')	Soluble	Solid	DI Leach	
880-20701-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-20701-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-20701-6	S-2 (2')	Soluble	Solid	DI Leach	
880-20701-7	S-2 (3')	Soluble	Solid	DI Leach	
880-20701-8	S-3 (0-1')	Soluble	Solid	DI Leach	
880-20701-9	S-3 (1.5')	Soluble	Solid	DI Leach	
880-20701-10	S-3 (2')	Soluble	Solid	DI Leach	
880-20701-11	S-3 (3')	Soluble	Solid	DI Leach	
380-20701-12	S-4 (0-1')	Soluble	Solid	DI Leach	
880-20701-13	S-4 (1.5')	Soluble	Solid	DI Leach	
880-20701-14	S-4 (2')	Soluble	Solid	DI Leach	
880-20701-15	S-4 (3')	Soluble	Solid	DI Leach	
880-20701-16	S-4 (4')	Soluble	Solid	DI Leach	
880-20701-17	S-5 (0-1')	Soluble	Solid	DI Leach	
880-20701-18	S-5 (1.5')	Soluble	Solid	DI Leach	
880-20701-19	S-5 (2')	Soluble	Solid	DI Leach	
880-20701-20	S-5 (3')	Soluble	Solid	DI Leach	
MB 880-37801/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37801/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37801/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20701-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-20701-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	
380-20701-11 MS	S-3 (3')	Soluble	Solid	DI Leach	
880-20701-11 MSD	S-3 (3')	Soluble	Solid	DI Leach	

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Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 38044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20701-1	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-2	S-1 (1.5')	Soluble	Solid	300.0	37801
880-20701-3	S-1 (2')	Soluble	Solid	300.0	37801
880-20701-4	S-2 (0-1')	Soluble	Solid	300.0	37801
880-20701-5	S-2 (1.5')	Soluble	Solid	300.0	37801
880-20701-6	S-2 (2')	Soluble	Solid	300.0	37801
880-20701-7	S-2 (3')	Soluble	Solid	300.0	37801
880-20701-8	S-3 (0-1')	Soluble	Solid	300.0	37801
880-20701-9	S-3 (1.5')	Soluble	Solid	300.0	37801
880-20701-10	S-3 (2')	Soluble	Solid	300.0	37801
880-20701-11	S-3 (3')	Soluble	Solid	300.0	37801
880-20701-12	S-4 (0-1')	Soluble	Solid	300.0	37801
880-20701-13	S-4 (1.5')	Soluble	Solid	300.0	37801
880-20701-14	S-4 (2')	Soluble	Solid	300.0	37801
880-20701-15	S-4 (3')	Soluble	Solid	300.0	37801
880-20701-16	S-4 (4')	Soluble	Solid	300.0	37801
880-20701-17	S-5 (0-1')	Soluble	Solid	300.0	37801
880-20701-18	S-5 (1.5')	Soluble	Solid	300.0	37801
880-20701-19	S-5 (2')	Soluble	Solid	300.0	37801
880-20701-20	S-5 (3')	Soluble	Solid	300.0	37801
MB 880-37801/1-A	Method Blank	Soluble	Solid	300.0	37801
LCS 880-37801/2-A	Lab Control Sample	Soluble	Solid	300.0	37801
LCSD 880-37801/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37801
880-20701-1 MS	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	37801
880-20701-11 MS	S-3 (3')	Soluble	Solid	300.0	37801
880-20701-11 MSD	S-3 (3')	Soluble	Solid	300.0	37801

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Project/Site: Shell Federal Client Sample ID: S-1 (0-1') Lab Sample ID: 880-20701-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Amount Amount Number or Analyzed Analyst Run Factor Lab Prep Total/NA 5035 4.97 g 5 mL 38029 10/27/22 15:04 MNR **EET MID** Total/NA Analysis 8021B 100 5 mL 5 mL 38173 10/30/22 16:09 MNR EET MID Total/NA Analysis Total BTEX 38246 10/31/22 10:07 ΑJ **EET MID** 1 Total/NA Analysis 8015 NM 1 38294 10/31/22 14:18 SM **EET MID** 10 mL 37942 EET MID Total/NA 8015NM Prep 10.04 g 10/26/22 16:08 DM Prep Total/NA Analysis 8015B NM 1 uL 1 uL 38052 10/28/22 22:18 ΑJ **EET MID** 50 mL 37801 10/25/22 11:06 СН Soluble DI Leach 5.04 g FFT MID Leach Soluble Analysis 300.0 50 50 mL 50 mL 38044 10/27/22 17:22 СН **EET MID**

Client Sample ID: S-1 (1.5') Lab Sample ID: 880-20701-2

Date Collected: 10/24/22 00:00 **Matrix: Solid** Date Received: 10/25/22 09:36

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Amount Amount Number or Analyzed Run Factor **Analyst** Lab Total/NA Prep 5035 5 mL 38029 10/27/22 15:04 MNR EET MID 5.05 g 8021B Total/NA Analysis 1 5 mL 5 mL 38173 10/30/22 13:05 MNR **EET MID** Total/NA Total BTEX Analysis 38246 10/31/22 10:07 A.I **EET MID** 1 Total/NA Analysis 8015 NM 38294 10/31/22 14:18 SM **EET MID** Total/NA 8015NM Prep 10.03 g 37942 10/26/22 16:08 DM **EET MID** Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 38052 10/28/22 23:22 AJ **EET MID** Soluble DI Leach 5.01 g 37801 10/25/22 11:06 CH **EET MID** Leach 50 mL Soluble Analysis 300.0 50 mL 50 mL 38044 10/27/22 17:47 СН **EET MID**

Client Sample ID: S-1 (2') Lab Sample ID: 880-20701-3 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/28/22 23:44	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38044	10/27/22 17:56	CH	EET MID

Lab Sample ID: 880-20701-4 Client Sample ID: S-2 (0-1') Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID

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Released to Imaging: 10/31/2023 10:42:44 AM

Client: Carmona Resources Project/Site: Shell Federal Job ID: 880-20701-1 SDG: Eddy County, New Mexico

SDG: Eddy County, New Mexico

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

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-20701-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:05	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 18:04	CH	EET MID

Lab Sample ID: 880-20701-5

Lab Sample ID. 000-20701-3

Date Collected: 10/24/22 00:00 Matrix: Solid
Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 18:12	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-20701-6

Date Collected: 10/24/22 00:00 Matrix: Solid
Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 00:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 18:37	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-20701-7

Date Collected: 10/24/22 00:00 Matrix: Solid
Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:10	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources Job ID: 880-20701-1 Project/Site: Shell Federal SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-7

Matrix: Solid

	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	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 18:46	CH	EET MID

Client Sample ID: S-3 (0-1') Lab Sample ID: 880-20701-8

Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 18:54	CH	EET MID

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-20701-9 **Matrix: Solid**

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Prepared		
or Analyzed	Analyst	Lab
10/27/22 15:04	MNR	EET MID
10/20/22 15:20	MAND	EET MID

	Type Prep	Method	Run	Factor						
	Pren			racioi	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA		5035			5.03 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 01:53	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 19:03	CH	EET MID

Client Sample ID: S-3 (2') Lab Sample ID: 880-20701-10

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 02:15	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 19:11	CH	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Late Constate ID: 000 00704 44

Client Sample ID: S-3 (3')

Lab Sample ID: 880-20701-11

Matrix: Solid

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 02:59	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38044	10/27/22 19:19	CH	EET MID

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-20701-12

Date Collected: 10/24/22 00:00 Matrix: Solid

Date Received: 10/25/22 09:36

Final Batch Batch Dil Initial Batch Prepared Prep Type Туре Method Amount Amount Number or Analyzed Lab Run Factor **Analyst** Total/NA Prep 5035 5 mL 38029 10/27/22 15:04 MNR EET MID 5.04 g 8021B Total/NA Analysis 50 5 mL 5 mL 38173 10/30/22 21:03 MNR **EET MID** Total/NA Total BTEX 38246 10/31/22 10:07 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 38294 10/31/22 14:18 SM **EET MID** Total/NA 8015NM Prep 10.01 g 10 mL 37942 10/26/22 16:08 DM **EET MID** Prep Total/NA Analysis 8015B NM 1 uL 1 uL 38052 10/29/22 03:21 ΑJ **EET MID** Soluble DI Leach 5.02 g 37801 10/25/22 11:06 CH **EET MID** Leach 50 mL Soluble Analysis 300.0 20 50 mL 50 mL 38044 10/27/22 19:44 СН **EET MID**

Client Sample ID: S-4 (1.5')

Date Collected: 10/24/22 00:00

Lab Sample ID: 880-20701-13

Matrix: Solid

Date Received: 10/25/22 09:36

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 38029 10/27/22 15:04 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 38173 10/30/22 18:19 MNR **EET MID** Total/NA Total BTEX 38246 10/31/22 10:07 **EET MID** Analysis 1 A.I Total/NA Analysis 8015 NM 38294 10/31/22 14:18 SM EET MID Total/NA Prep 8015NM Prep 10.02 g 10 mL 37942 10/26/22 16:08 DM **EET MID** Total/NA 8015B NM 38052 10/29/22 03:43 Analysis 1 1 uL 1 uL AJ **EET MID** Soluble DI Leach 4.95 g 50 mL 37801 10/25/22 11:06 CH Leach **EET MID** Soluble Analysis 300.0 20 50 mL 50 mL 38044 10/27/22 19:53 СН **EET MID**

Client Sample ID: S-4 (2')

Lab Sample ID: 880-20701-14

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID

Eurofins Midland

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Matrix: Solid

Client: Carmona Resources Project/Site: Shell Federal

Client Sample ID: S-4 (2')

Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Lab Sample ID: 880-20701-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:05	AJ	EET MID
Soluble	Leach	DI Leach			5 a	50 mL	37801	10/25/22 11:06	CH	EET MID

50 mL

50 mL

38044

50

Lab Sample ID: 880-20701-15

10/27/22 20:18 CH

Matrix: Solid

EET MID

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Client Sample ID: S-4 (3')

Analysis

300.0

Soluble

	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	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:27	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38044	10/27/22 20:26	CH	EET MID

Client Sample ID: S-4 (4') Lab Sample ID: 880-20701-16

Date Collected: 10/24/22 00:00 **Matrix: Solid** Date Received: 10/25/22 09:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38223	10/31/22 09:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38211	10/31/22 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 04:49	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 20:35	CH	EET MID

Client Sample ID: S-5 (0-1') Lab Sample ID: 880-20701-17 Date Collected: 10/24/22 00:00 **Matrix: Solid**

Date Received: 10/25/22 09:36

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			4.97 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 19:41	MNR	EET MID
Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Prep Analysis	8015NM Prep 8015B NM			10.02 g 1 uL	10 mL 1 uL	37942 38052	10/26/22 16:08 10/29/22 05:11	DM AJ	EET MID
	Type Prep Analysis Analysis Analysis Prep	Type Method Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Factor Prep 5035 1 Analysis 8021B 1 1 Analysis Total BTEX 1 1 Analysis 8015 NM 1 1 Prep 8015NM Prep 1 1	Type Method Run Factor Amount Prep 5035 4.97 g Analysis 8021B 1 5 mL Analysis Total BTEX 1 1 Analysis 8015 NM 1 1 Prep 8015NM Prep 10.02 g	Type Method Run Factor Amount Amount Prep 5035 4.97 g 5 mL Analysis 8021B 1 5 mL 5 mL Analysis Total BTEX 1	Type Method Run Factor Amount Amount Number Prep 5035 4.97 g 5 mL 38029 Analysis 8021B 1 5 mL 5 mL 38173 Analysis Total BTEX 1 38246 Analysis 8015 NM 1 38294 Prep 8015NM Prep 10.02 g 10 mL 37942	Type Method Run Factor Amount Amount Number or Analyzed Prep 5035 4.97 g 5 mL 38029 10/27/22 15:04 Analysis 8021B 1 5 mL 5 mL 38173 10/30/22 19:41 Analysis Total BTEX 1 38246 10/31/22 10:07 Analysis 8015 NM 1 38294 10/31/22 14:18 Prep 8015 NM Prep 10.02 g 10 mL 37942 10/26/22 16:08	Type Method Run Factor Amount Amount Number or Analyzed Analyst Prep 5035 4.97 g 5 mL 38029 10/27/22 15:04 MNR Analysis 8021B 1 5 mL 5 mL 38173 10/30/22 19:41 MNR Analysis Total BTEX 1 38246 10/31/22 10:07 AJ Analysis 8015 NM 1 38294 10/31/22 14:18 SM Prep 8015NM Prep 10.02 g 10 mL 37942 10/26/22 16:08 DM

Lab Chronicle

Client: Carmona Resources Job ID: 880-20701-1 SDG: Eddy County, New Mexico Project/Site: Shell Federal

Client Sample ID: S-5 (0-1')

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 Lab Sample ID: 880-20701-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38044	10/27/22 20:43	CH	EET MID

Client Sample ID: S-5 (1.5') Lab Sample ID: 880-20701-18

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 05:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37801	10/25/22 11:06	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 20:51	CH	EET MID

Client Sample ID: S-5 (2') Lab Sample ID: 880-20701-19

Date Collected: 10/24/22 00:00 Date Received: 10/25/22 09:36 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38029	10/27/22 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38173	10/30/22 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 05:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 21:00	CH	EET MID

Client Sample ID: S-5 (3') Lab Sample ID: 880-20701-20 Date Collected: 10/24/22 00:00

Date Received: 10/25/22 09:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38223	10/31/22 09:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38211	10/31/22 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38246	10/31/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38294	10/31/22 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37942	10/26/22 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38052	10/29/22 06:16	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37801	10/25/22 11:06	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38044	10/27/22 21:08	CH	EET MID

Eurofins Midland

10/27/22 21:00 EET MID

Matrix: Solid

Lab Chronicle

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-20701-1

Project/Site: Shell Federal

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report by	it the leberatory is not cortifi	ad by the gayerning outbority. This list may	arrimalizada amaliztaa farri
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for t
,	• •	Matrix	ed by the governing authority. This list ma	ay include analytes for t
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Summary

Client: Carmona Resources Project/Site: Shell Federal

Job ID: 880-20701-1

SDG: Eddy County, New Mexico

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources Project/Site: Shell Federal

880-20701-20

S-5 (3')

Job ID: 880-20701-1 SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20701-1	S-1 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-2	S-1 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-3	S-1 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-4	S-2 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-5	S-2 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-6	S-2 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-7	S-2 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-8	S-3 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-9	S-3 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-10	S-3 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-11	S-3 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-12	S-4 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-13	S-4 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-14	S-4 (2')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-15	S-4 (3')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-16	S-4 (4')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-17	S-5 (0-1')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-18	S-5 (1.5')	Solid	10/24/22 00:00	10/25/22 09:36
880-20701-19	S-5 (2')	Solid	10/24/22 00:00	10/25/22 09:36

10/24/22 00:00

10/25/22 09:36

Solid

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	(omm my a		Comments:	S-3 (2')	S-3 (1 5')	S-3 (0-1')	S-2 (3')	S-2 (2')	S-2 (1.5')	S-2 (0-1')	S-1 (2')	S-1 (1.5')	S-1 (0-1')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name	Project Location	Project Number	Project Name	Phone	City, State ZIP	Address.	Company Name (Project Manager (
6	fam	70)))			(3)	"		3]	ification		Yes	Yes					Eddy (432-813-6823	Midland, TX 79701	310 W Wall St Ste 415	Carmona Resources	Conner Moehring
		Relinquished by (Signature)		10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	Date		No N/A	No (N/A))	Tempellank:		CRM	Eddy County, New Mexico	1155	Shell Federal		701	Ste 415	urces	g
		/ (Signature)												Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes(No)		lexico							
				×	×	×	×	×	×	×	×	×	×	Soil	erature	ading	У.		Wet ice			Due Date	✓ Routine	Tur	Email				
					6		6	G	6	6	6	G	6	Water Comp		0	7.30	ける	(Yes No)			Rush	Turn Around	Granth@forl.com	City, State ZIP	Address.	Company Name	Bill to (if different)
-	10/2			3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3 1	ab/#of mpCont			Pa	ram	nete	rs			Pres. Code		.com			ne	nt)
	10/23/22	Date		×	×	×	×	×	×	×	×	×	×	# ¥		В	TEX						ë s			Midis	6101	Fask	Gran
	2	Date/Time		×	×	×	×	×	×	×	×	×	×	TPI	H 801	5M (GR	0+1	DRO	+ M	RO)					Midland, Texas 79707	6101 Holiday Hill Road	Fasken Oil and Ranch	Grant Huckabay
	136			×	×	×	×	×	×	×	×	×	×			Ch	lorid	e 30	0.0							ıs 79707	Hill Road	d Ranch	ay
	1																												
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	8	R.																						ANALYSIS REQUEST					
		Received by																						QUEST	Deliv	Repo	State	Prog	
						- 				1															Deliverables, EDD	Reporting Level II Level III	State of Project:	Program: UST/PST PRP	
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		٥											q	nple Co	scorbic A	Zn Acetate+NaOH Zn	NaSO ₃	NABIS						servativ	Other	RRP [□kRc	S
	Date/ Inite	ate/Time										J	7 0	Sample Comments	NaOH+Ascorbic Acid SAPC	Zn				NaOH Na	NH CON	MeOH Me	DI Water H ₂ O	Preservative Codes		_Level IV		perfund	
								L					\$	y ,	о 					. u	- i	D ,	₩ 0	5		<u> </u>		ه 	

Work Order No: 20701

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	Come of se		Comments:	S-5 (3')	S-5 (2')	S-5 (1 5')	S-5 (0-1')	S-4 (4')	S-4 (3')	S-4 (2')	S-4 (1 5')	S-4 (0-1')	S-3 (3')	Sample Identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name.	Project Location	Project Number	Project Name	Phone	ate ZIP		Company Name	Project Manager (
	Emy	Reli												ification		Yes No	Yes No	Yes	Temp Blank.			Eddy Co		Sh	432-813-6823	Midland, TX 79701	310 W Wall St Ste 415	Carmona Resources	Conner Moehring
		Relinquished by (Signature)		10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022	Date		N/A	N/A	No T	Slank.		CRM	Eddy County, New Mexico	1155	Shell Federal			415	es	
		(Signature)												Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes No			exico							
				×	×	×	×	×	×	×	×	×	×	Soil	erature	ading	Jr.		Wet Ice			Due Date	✓ Routine	ď	Email				
														Water Co					Yes No				Rush	Turn Around	il Granth@forl.com	City, State ZIP	Address	Company Name	Bill to (if different)
	101			G 1	G 1	G 1	G 1	G 1	G 1	G 1	G 1	G 1	G 1	Grab/ # of Comp Cont			L Pa	ran	nete	rs			Code	,	l.com	٦		me	ent)
	22/52/01	Date,		×	×	×	×	×	×	×	×	×	×	ᇍᆧ		В	TEX						ë .			Midla	6101	Fask	Gran
-	9	Date/Time		×	×	×	×	×	×	×	×	×	×	TPł	1 801	5M	(GR	0+	DRO	+ M	RO))				Midland, Texas 79707	Holiday	Fasken Oil and Ranch	Grant Huckabay
	6			×	×	×	×	×	×	×	×	×	×			Ch	lorid	le 30	0.00							s 79707	6101 Holiday Hill Road	d Ranch	ay
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	M	\int																						ANALYSIS REQUEST					
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		Received by (Signature)																						JEST	Deliverables EDD	Reporting Level II Level III	State of Project:	Program: UST/PST PRP rownfields RC	
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									20701	880				ample C	+Ascorbic	Zn Acetate+NaOH Zn	Na ₂ S ₂ O ₃ NaSO ₃	NaHSO ₄ NABIS	퓽	H ₂	กั	<u>o</u>	δ	reservat	Other	RRP		∏.RC	ıments
		Date/Time												Sample Comments	NaOH+Ascorbic Acid SAPC	ΗZn	~			NaOH Na	HNO. HN	MeOH Me	DI Water: H ₂ O	Preservative Codes		Level IV		perfund	
	Ш	_][Ш																			0		<u> </u>				

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-20701-1

SDG Number: Eddy County, New Mexico

Login Number: 20701 List Source: Eurofins Midland

List Number: 1 Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grant Huckabay Fasken Oil and Ranch 6101 Holiday HIII Road Midland, Texas 79707

Generated 1/26/2023 3:24:14 PM

JOB DESCRIPTION

Shell Fed #2

JOB NUMBER

880-24038-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

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

Generated 1/26/2023 3:24:14 PM

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

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Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Laboratory Job ID: 880-24038-1

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Eurofins Midland 1/26/2023

Definitions/Glossary

Client: Fasken Oil and Ranch Job ID: 880-24038-1

Project/Site: Shell Fed #2

Qualifiers

GC VOA Qualifier

U

F1 MS and/or MSD recovery exceeds control limits. F2

MS/MSD RPD exceeds control limits S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier **Qualifier Description** S1-

Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC Qualifier

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

Qualifier Description

Colony Forming Unit

Glossary

CFU

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid

CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN

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

Decision Level Concentration (Radiochemistry) DLC

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

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

MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

Job ID: 880-24038-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-24038-1

Receipt

The samples were received on 1/24/2023 11:14 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 3.0°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-44619 and analytical batch 880-44613 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-N (880-24038-2) and SW-E (880-24038-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-24038-A-1-F MS) and (880-24038-A-1-G 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44632 and analytical batch 880-44690 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: Fasken Oil and Ranch

Job ID: 880-24038-1

Project/Site: Shell Fed #2

Client Sample ID: BH

Lab Sample ID: 880-24038-1

Matrix: Solid

Date Collected: 01/23/23 11:00 Date Received: 01/24/23 11:14

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/24/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				01/24/23 11:27	01/24/23 23:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/24/23 11:27	01/24/23 23:29	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
· ·									
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (G	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/26/23 14:54	Dil Fac
Analyte	Result <50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	RL 50.0			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg	=		01/26/23 14:54	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg	=	Prepared	01/26/23 14:54 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 13:17	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/23 08:39 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 13:17 01/25/23 13:17	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 13:17 01/25/23 13:17	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared	01/26/23 14:54 Analyzed 01/25/23 13:17 01/25/23 13:17 01/25/23 13:17 Analyzed	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 13:17 01/25/23 13:17 01/25/23 13:17 Analyzed 01/25/23 13:17	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U Qualifier Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 13:17 01/25/23 13:17 01/25/23 13:17 Analyzed 01/25/23 13:17	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: SW-N

Date Collected: 01/23/23 11:15 Date Received: 01/24/23 11:14

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 11:27	01/24/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				01/24/23 11:27	01/24/23 23:50	

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-24038-2

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Job ID: 880-24038-1

Client Sample Results

Client: Fasken Oil and Ranch

Project/Site: Shell Fed #2

Client Sample ID: SW-N Lab Sample ID: 880-24038-2 Matrix: Solid

Date Collected: 01/23/23 11:15 Date Received: 01/24/23 11:14

Sample Depth: 4'

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

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	01/24/23 11:27	01/24/23 23:50	1

l				
Method: TAI	SOP Total	RTFY - Total	RTFY C	alculation
Mictilou. IA	_ 001 10tai	DIEX - IOLAI		aiculation

Analyte	Result	Qualifier	RL	MDL	Unit	0	F	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_		01/25/23 15:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/26/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	01/25/23 08:39	01/25/23 14:25	1
o-Terphenyl	92	70 - 130	01/25/23 08:39	01/25/23 14:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg				01/25/23 07:51	1

Client Sample ID: SW-S Lab Sample ID: 880-24038-3

Date Collected: 01/23/23 11:32 Date Received: 01/24/23 11:14

Sample Depth: 4'

Mothodi CIMOAC 0004D	Valatila Organia Campaunda //	

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 11:27	01/25/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/24/23 11:27	01/25/23 00:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/24/23 11:27	01/25/23 00:11	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	ma/Ka			01/25/23 15:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (DRO)	(GC
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		_	01/26/23 14:54	1

Eurofins Midland

Matrix: Solid

Client: Fasken Oil and Ranch

Job ID: 880-24038-1

Project/Site: Shell Fed #2

Client Sample ID: SW-S

Date Collected: 01/23/23 11:32 Date Received: 01/24/23 11:14

Sample Depth: 4'

Lab Sample ID: 880-24038-3

Matrix: Solid

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		01/25/23 08:39	01/25/23 14:48	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 14:48	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/23 08:39	01/25/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/25/23 08:39	01/25/23 14:48	1
o-Terphenyl	82		70 - 130				01/25/23 08:39	01/25/23 14:48	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		4.99		mg/Kg			01/25/23 07:57	1

Client Sample ID: SW-E Lab Sample ID: 880-24038-4 Matrix: Solid

Date Collected: 01/23/23 11:45

Date Received: 01/24/23 11:14

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130				01/24/23 11:27	01/25/23 00:32	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/24/23 11:27	01/25/23 00:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/23 15:14	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte			- /						
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0			MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/26/23 14:54	Dil Fac
Total TPH	<50.0	U	50.0	MDL		<u>D</u>	Prepared		
	<50.0	U	50.0	MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte	<50.0	nics (DRO) Qualifier	50.0 (GC)		mg/Kg			01/26/23 14:54	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.0 sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)		mg/Kg		Prepared	01/26/23 14:54 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 sel Range Orga Result	Unics (DRO) Qualifier	50.0 (GC)		mg/Kg		Prepared	01/26/23 14:54 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 sel Range Orga Result <50.0 <50.0	Unics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/23 08:39 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 15:10 01/25/23 15:10	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<50.0 sel Range Orga Result <50.0	Unics (DRO) Qualifier U	50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 15:10	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	Unics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared	01/26/23 14:54 Analyzed 01/25/23 15:10 01/25/23 15:10 01/25/23 15:10 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 sel Range Orga Result <50.0 <50.0 <50.0	Unics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/23 08:39 01/25/23 08:39 01/25/23 08:39	01/26/23 14:54 Analyzed 01/25/23 15:10 01/25/23 15:10 01/25/23 15:10	1 Dil Fac 1 1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-24038-4

Job ID: 880-24038-1

Client: Fasken Oil and Ranch Project/Site: Shell Fed #2

Client Sample ID: SW-E

Date Collected: 01/23/23 11:45 Date Received: 01/24/23 11:14

Sample Depth: 4'

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		5.05		mg/Kg			01/25/23 08:03	1

Client Sample ID: SW-W Lab Sample ID: 880-24038-5

Date Collected: 01/23/23 12:00 Date Received: 01/24/23 11:14

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	
Toluene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:52	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/24/23 11:27	01/25/23 00:52	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 11:27	01/25/23 00:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	79		70 - 130				01/24/23 11:27	01/25/23 00:52	
1,4-Difluorobenzene (Surr)	94		70 - 130				01/24/23 11:27	01/25/23 00:52	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX - -	<0.00398	U	0.00398		mg/Kg			01/25/23 15:14	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (0 Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.9		mg/Kg	_ <u>-</u>	Trepared	01/26/23 14:54	
-	.0.0				9,9			0.720720	
Method: SW846 8015B NM - Dies	sol Pango Orga	-: (DDO)							
	sei italige Olya	nics (DRO)	(GC)						
Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/25/23 08:39	Analyzed 01/25/23 15:33	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL	MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	01/25/23 08:39	01/25/23 15:33	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U U	RL 49.9	MDL	mg/Kg	<u>D</u>	01/25/23 08:39	01/25/23 15:33 01/25/23 15:33	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u> </u>	01/25/23 08:39 01/25/23 08:39 01/25/23 08:39	01/25/23 15:33 01/25/23 15:33 01/25/23 15:33	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U U	### RL 49.9 49.9 49.9 **Limits	MDL	mg/Kg	<u> </u>	01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared	01/25/23 15:33 01/25/23 15:33 01/25/23 15:33 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg	<u> </u>	01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared 01/25/23 08:39	01/25/23 15:33 01/25/23 15:33 01/25/23 15:33 Analyzed 01/25/23 15:33	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	01/25/23 08:39 01/25/23 08:39 01/25/23 08:39 Prepared 01/25/23 08:39	01/25/23 15:33 01/25/23 15:33 01/25/23 15:33 Analyzed 01/25/23 15:33	Dil Fa

Surrogate Summary

Client: Fasken Oil and Ranch Job ID: 880-24038-1

Project/Site: Shell Fed #2

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-24038-1	BH	77	92	
380-24038-2	SW-N	60 S1-	91	
880-24038-3	SW-S	102	97	
880-24038-4	SW-E	59 S1-	90	
880-24038-5	SW-W	79	94	
880-24039-A-1-A MS	Matrix Spike	102	101	
880-24039-A-1-B MSD	Matrix Spike Duplicate	88	103	
LCS 880-44619/1-A	Lab Control Sample	98	109	
LCSD 880-44619/2-A	Lab Control Sample Dup	90	107	
MB 880-44550/5-A	Method Blank	75	91	
MB 880-44619/5-A	Method Blank	70	100	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-24038-1	ВН	87	84	
80-24038-1 MS	ВН	79	68 S1-	
0-24038-1 MSD	ВН	75	64 S1-	
0-24038-2	SW-N	90	92	
0-24038-3	SW-S	82	82	
)-24038-4	SW-E	83	83	
0-24038-5	SW-W	79	80	
CS 880-44696/2-A	Lab Control Sample	95	93	
SD 880-44696/3-A	Lab Control Sample Dup	90	93	
880-44696/1-A	Method Blank	100	98	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Fasken Oil and Ranch Job ID: 880-24038-1

Project/Site: Shell Fed #2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44550/5-A

Analysis Batch: 44613

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44550

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/23/23 15:50	01/24/23 11:43	1
The state of the s									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	01/23/2	23 15:50	01/24/23 11:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/23/2	23 15:50	01/24/23 11:43	1

Lab Sample ID: MB 880-44619/5-A

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 44613								Prep Batch	n: 44619
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 11:27	01/24/23 22:25	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		01/24/23 11:27	01/24/23 22:25	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	01/24/23 11:	01/24/23 22:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/24/23 11::	27 01/24/23 22:25	1

Lab Sample ID: LCS 880-44619/1-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 44619

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09605		mg/Kg		96	70 - 130	
Toluene	0.100	0.08702		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08377		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08841		mg/Kg		88	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	· Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1.4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-44619/2-A

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Prep Batch: 44619

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1159	mg/Kg		116	70 - 130	19	35

QC Sample Results

Client: Fasken Oil and Ranch Job ID: 880-24038-1

Project/Site: Shell Fed #2

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

Lab Sample ID: LCSD 880-44619/2-A **Matrix: Solid**

Analysis Batch: 44613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 44619

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	14	35
Ethylbenzene	0.100	0.09225		mg/Kg		92	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1845		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.09078		mg/Kg		91	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-24039-A-1-A MS

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44619

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U F1 F2	0.100	0.08688		mg/Kg		87	70 - 130
Toluene	<0.00201	U F1 F2	0.100	0.07578		mg/Kg		75	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.100	0.07485		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1510		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U F1 F2	0.100	0.07657		mg/Kg		76	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 880-24039-A-1-B MSD

Matrix: Solid

Analysis Batch: 44613

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44619

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0990	0.05391	F1 F2	mg/Kg		54	70 - 130	47	35
Toluene	<0.00201	U F1 F2	0.0990	0.04769	F1 F2	mg/Kg		47	70 - 130	45	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.04696	F1 F2	mg/Kg		47	70 - 130	46	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.09156	F1 F2	mg/Kg		46	70 - 130	49	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.04738	F1 F2	mg/Kg		47	70 - 130	47	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-44696/1-A

Matrix: Solid

Analysis Batch: 44706

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 44696

мв мв Result Qualifier MDL Unit Prepared <49.9 U 49.9 mg/Kg 01/25/23 08:39 01/25/23 10:43 Gasoline Range Organics (GRO)-C6-C10

Client: Fasken Oil and Ranch Project/Site: Shell Fed #2

Job ID: 880-24038-1

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

Lab Sample ID: MB 880-44696/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA** Analysis Batch: 44706 Prep Batch: 44696

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 10:43	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/23 08:39	01/25/23 10:43	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/25/23 08:39	01/25/23 10:43	1

o-Terphenyl		98	70 - 130				01/2	25/23 08:39	01/25/23 10:43	1
Lab Sample ID: LCS 880-446	896/2-A						Clien	t Sample	ID: Lab Control S	Sample
Matrix: Solid									Prep Type: To	otal/NA
Analysis Batch: 44706									Prep Batch	: 44696
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			999	812.5		mg/Kg		81	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			999	951.2		mg/Kg		95	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	95		70 - 130							
o-Terphenyl	93		70 - 130							

asoline Range Organics GRO)-C6-C10					nt Sam	ple ID:	-	I Sampl ype: To Batch:	otal/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	999	900.8		mg/Kg		90	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	999	934.5		mg/Kg		94	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	93		70 - 130

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Lab Sample ID: 880-24038-1 MS Matrix: Solid Analysis Batch: 44706	6								Prep Ty Prep	ample ID: BH ype: Total/NA Batch: 44696
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	909.8		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	1098		mg/Kg		108	70 - 130	
C10-C28)										
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	79		70 - 130							

Eurofins Midland

70 - 130

o-Terphenyl

Client: Fasken Oil and Ranch Job ID: 880-24038-1

Project/Site: Shell Fed #2

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

Lab Sample ID: 880-24038-1 MSD Client Sample ID: BH **Matrix: Solid**

Analysis Batch: 44706

Prep Type: Total/NA Prep Batch: 44696

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	829.8		mg/Kg		79	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1020		mg/Kg		101	70 - 130	7	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	64	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44632/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44690

мв мв

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/25/23 07:14	1

Lab Sample ID: LCS 880-44632/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44690

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	264.9	-	mg/Kg		106	90 - 110	

Lab Sample ID: LCSD 880-44632/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 44690

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.3		ma/Ka		106	90 - 110		20	

Lab Sample ID: 880-24038-1 MS

Matrix: Solid

Analysis Batch: 44690

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<5.02	II F1	251	330.2	F1	ma/Ka		130	90 110	

Lab Sample ID: 880-24038-1 MSD

Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 44690											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<5.02	U F1	251	328.2	F1	mg/Kg		129	90 - 110	1	20

Eurofins Midland

Prep Type: Soluble

Client Sample ID: BH

Client Sample ID: BH

Prep Type: Soluble

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

GC VOA

Prep Batch: 44550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44550/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	8021B	44619
880-24038-2	SW-N	Total/NA	Solid	8021B	44619
880-24038-3	SW-S	Total/NA	Solid	8021B	44619
880-24038-4	SW-E	Total/NA	Solid	8021B	44619
880-24038-5	SW-W	Total/NA	Solid	8021B	44619
MB 880-44550/5-A	Method Blank	Total/NA	Solid	8021B	44550
MB 880-44619/5-A	Method Blank	Total/NA	Solid	8021B	44619
LCS 880-44619/1-A	Lab Control Sample	Total/NA	Solid	8021B	44619
LCSD 880-44619/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44619
880-24039-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	44619
880-24039-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44619

Prep Batch: 44619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	5035	<u> </u>
880-24038-2	SW-N	Total/NA	Solid	5035	
880-24038-3	SW-S	Total/NA	Solid	5035	
880-24038-4	SW-E	Total/NA	Solid	5035	
880-24038-5	SW-W	Total/NA	Solid	5035	
MB 880-44619/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44619/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44619/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24039-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24039-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	Total BTEX	
880-24038-2	SW-N	Total/NA	Solid	Total BTEX	
880-24038-3	SW-S	Total/NA	Solid	Total BTEX	
880-24038-4	SW-E	Total/NA	Solid	Total BTEX	
880-24038-5	SW-W	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	8015NM Prep	
880-24038-2	SW-N	Total/NA	Solid	8015NM Prep	
880-24038-3	SW-S	Total/NA	Solid	8015NM Prep	
880-24038-4	SW-E	Total/NA	Solid	8015NM Prep	
880-24038-5	SW-W	Total/NA	Solid	8015NM Prep	
MB 880-44696/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44696/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44696/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24038-1 MS	ВН	Total/NA	Solid	8015NM Prep	
880-24038-1 MSD	ВН	Total/NA	Solid	8015NM Prep	

Eurofins Midland

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

GC Semi VOA

Analysis Batch: 44706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	8015B NM	44696
880-24038-2	SW-N	Total/NA	Solid	8015B NM	44696
880-24038-3	SW-S	Total/NA	Solid	8015B NM	44696
880-24038-4	SW-E	Total/NA	Solid	8015B NM	44696
880-24038-5	SW-W	Total/NA	Solid	8015B NM	44696
MB 880-44696/1-A	Method Blank	Total/NA	Solid	8015B NM	44696
LCS 880-44696/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44696
LCSD 880-44696/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44696
880-24038-1 MS	ВН	Total/NA	Solid	8015B NM	44696
880-24038-1 MSD	ВН	Total/NA	Solid	8015B NM	44696

Analysis Batch: 44832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Total/NA	Solid	8015 NM	
880-24038-2	SW-N	Total/NA	Solid	8015 NM	
880-24038-3	SW-S	Total/NA	Solid	8015 NM	
880-24038-4	SW-E	Total/NA	Solid	8015 NM	
880-24038-5	SW-W	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-24038-1	ВН	Soluble	Solid	DI Leach	
880-24038-2	SW-N	Soluble	Solid	DI Leach	
880-24038-3	SW-S	Soluble	Solid	DI Leach	
880-24038-4	SW-E	Soluble	Solid	DI Leach	
880-24038-5	SW-W	Soluble	Solid	DI Leach	
MB 880-44632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24038-1 MS	ВН	Soluble	Solid	DI Leach	
880-24038-1 MSD	ВН	Soluble	Solid	DI Leach	

Analysis Batch: 44690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24038-1	ВН	Soluble	Solid	300.0	44632
880-24038-2	SW-N	Soluble	Solid	300.0	44632
880-24038-3	SW-S	Soluble	Solid	300.0	44632
880-24038-4	SW-E	Soluble	Solid	300.0	44632
880-24038-5	SW-W	Soluble	Solid	300.0	44632
MB 880-44632/1-A	Method Blank	Soluble	Solid	300.0	44632
LCS 880-44632/2-A	Lab Control Sample	Soluble	Solid	300.0	44632
LCSD 880-44632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44632
880-24038-1 MS	ВН	Soluble	Solid	300.0	44632
880-24038-1 MSD	ВН	Soluble	Solid	300.0	44632

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Client: Fasken Oil and Ranch Project/Site: Shell Fed #2 Job ID: 880-24038-1

Client Sample ID: BH

Lab Sample ID: 880-24038-1

Matrix: Solid

Date Collected: 01/23/23 11:00 Date Received: 01/24/23 11:14

	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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/24/23 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 13:17	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:32	CH	EET MID

Client Sample ID: SW-N Lab Sample ID: 880-24038-2

Date Collected: 01/23/23 11:15

Date Received: 01/24/23 11:14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/24/23 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 14:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:51	CH	EET MID

Client Sample ID: SW-S

Date Collected: 01/23/23 11:32

Lab Sample ID: 880-24038-3

Matrix: Solid

Date Collected: 01/23/23 11:32
Date Received: 01/24/23 11:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 14:48	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 07:57	CH	EET MID

Client Sample ID: SW-E

Date Collected: 01/23/23 11:45

Lab Sample ID: 880-24038-4

Matrix: Solid

Date Received: 01/24/23 11:14

	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	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID

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Client: Fasken Oil and Ranch

Project/Site: Shell Fed #2

Lab Sample ID: 880-24038-4

Matrix: Solid

Job ID: 880-24038-1

Client Sample ID: SW-E

Date Collected: 01/23/23 11:45 Date Received: 01/24/23 11:14

	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			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 08:03	CH	EET MID

Client Sample ID: SW-W Lab Sample ID: 880-24038-5 Matrix: Solid

Date Collected: 01/23/23 12:00 Date Received: 01/24/23 11:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44619	01/24/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44613	01/25/23 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44741	01/25/23 15:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			44832	01/26/23 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44696	01/25/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44706	01/25/23 15:33	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44632	01/24/23 12:57	KS	EET MID
Soluble	Analysis	300.0		1			44690	01/25/23 09:05	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch

Job ID: 880-24038-1

Project/Site: Shell Fed #2

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-25		
The following analytes the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
OO4E NIM		Solid	Total TPH	-	
8015 NM		Joliu	IOIAI IFII		

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Method Summary

Client: Fasken Oil and Ranch
Project/Site: Shell Fed #2

Job ID: 880-24038-1

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Fasken Oil and Ranch Project/Site: Shell Fed #2 Job ID: 880-24038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-24038-1	ВН	Solid	01/23/23 11:00	01/24/23 11:14	
880-24038-2	SW-N	Solid	01/23/23 11:15	01/24/23 11:14	4
880-24038-3	SW-S	Solid	01/23/23 11:32	01/24/23 11:14	4
880-24038-4	SW-E	Solid	01/23/23 11:45	01/24/23 11:14	4'
880-24038-5	SW-W	Solid	01/23/23 12:00	01/24/23 11:14	4

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Project Manager Company Name

Bill to. (if different)

6101 Holiday Hill Road Fasken Oil and Ranch Grant Huckabay

Address Company Name

State of Project

Program UST/PST PRP Brownfields RRC Superfund

Work Order Comments

www xenco com

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Chain of Custody

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

Worl
Work Order No:
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City, State ZIP Midland TX 79707 City State ZIP	Reporting Level III Level III PST/UST TRRP Level IV
Phone 432-288-5529 Email granth@forl.com	Deliverables EDD
Project Name Shell Fed #2 Turn Around	ANALYSIS REQUEST Preservative Codes
Rou	None
Project Location Due Date トンジー3者	_
ller's Name TAT starts the	
rs	
SAMPLE RECEIPT Temp Blank Yes (No Wet Ice YES No et 2	U
ram	Natiso, Naris
Yes No WA Correction Factor . C/? Pa	Na.co. Nasco.
s. Yes No (Lax Temperature Reading ? 3	Zn Anstata+NaOH Zn
е 3.0 5м(
dentification Matrix	LORIU
Sampled Comp Cont	CH
	- 5
Sh1 - S	
512-E	
50-0	
	880-24038 Chain of Circle 1
Total 200 7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba	Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Ni Se Ag Ti U
Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 yulk be applied to each poject and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	ofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions penses incurred by the client if such losses are due to circumstances beyond the control Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated
Relinguished by (Signature) Aecelyed by (Signature) Date/Time	Relinquished by (Signature) Received by (Signature) Date/Time
July Market	
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	Dational Date of the Brook of

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch Job Number: 880-24038-1

List Source: Eurofins Midland Login Number: 24038

List Number: 1 Creator: Teel, Brianna

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	

Eurofins Midland

<6mm (1/4").



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

May 16, 2023

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: SHELL FEDERAL #2 DISPOSAL LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 8:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023 Sampling Date: 05/12/2023

Reported: 05/16/2023
Project Name: SHELL FEDERAL #2 DISPOSAL LINE

Sampling Type: Soil

Project Number: 1155

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

Project Location: FASKEN - EDDY COUNTY, NM

Sample ID: CS - 1 (4') (H232410-01)

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	48.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celeg D. Frene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 2 (4') (H232410-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 3 (4') (H232410-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/15/2023	ND	432	108	400	0.00	
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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 4 (4') (H232410-04)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 5 (4') (H232410-05)

Project Name:

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/15/2023	ND	432	108	400	0.00	
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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 6 (3') (H232410-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.5	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Name: Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 7 (3') (H232410-07)

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/15/2023	ND	432	108	400	0.00	
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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

mg/kg

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 8 (3') (H232410-08)

Project Name:

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keens



Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: CS - 9 (3') (H232410-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 Sampling Type:
SHELL FEDERAL #2 DISPOSAL LINE Sampling Condition:

Analyzed By: JH

Project Name: SHELL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023
Sampling Type: Soil

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: CS - 10 (1.5') (H232410-10)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	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	48.0	16.0	05/15/2023	ND	432	108	400	0.00	
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	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134
Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported:

05/16/2023 Sampling Type: SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Soil

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

Sample ID: CS - 11 (1.5') (H232410-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	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	32.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 1 (4') (H232410-12)

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-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	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 2 (4') (H232410-13)

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported:

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 3 (4') (H232410-14)

Project Name:

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-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	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 4 (4') (H232410-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

RTFY 8021R

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 5 (4') (H232410-16)

B1EX 8021B	mg/	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	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	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Name: Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 6 (1') (H232410-17)

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	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

RTFY 8021R

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 7 (3') (H232410-18)

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 05/15/2023 Reported:

Sampling Date: 05/12/2023 05/16/2023 Sampling Type: Soil

Project Name: Project Number: 1155

SHELL FEDERAL #2 DISPOSAL LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: FASKEN - EDDY COUNTY, NM

Sample ID: SW - 8 (4') (H232410-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Applyzod By: 14

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Cool & Intact

Tamara Oldaker

Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

 05/15/2023
 Sampling Date:
 05/12/2023

 05/16/2023
 Sampling Type:
 Soil

Analyzed By: JH

Sampling Condition:

Sample Received By:

Project Name: SHELL FEDERAL #2 DISPOSAL LINE
Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sample ID: SW - 9 (4') (H232410-20)

BTEX 8021B

DILX OUZID	11197	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.13	107	2.00	7.87	
Toluene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	7.66	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.07	103	2.00	8.13	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.35	106	6.00	7.31	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	193	96.7	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	191	95.7	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023 Sampling Date: 05/12/2023 Sampling Type: Soil

Project Name:

BTEX 8021B

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

SHELL FEDERAL #2 DISPOSAL LINE Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sample ID: SW - 10 (2.5') (H232410-21)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	48.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.1	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						

Analyzed By: JH/

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023

05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Reported:

Project Name:

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 11 (1') (H232410-22)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Name: Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 12 (3') (H232410-23)

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	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	< 0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	10.8	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701

Fax To:

Received: 05/15/2023 Reported: 05/16/2023 Sampling Date: 05/12/2023 Sampling Type: Soil

Project Name: SHELL FEDERAL #2 DISPOSAL LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sample ID: SW - 13 (1.5') (H232410-24)

BTEX 8021B

	<u> </u>			· , · ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Analyzed By: JH/

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported:

Sampling Date: 05/16/2023 Sampling Type: Sampling Condition:

Project Name: SHELL FEDERAL #2 DISPOSAL LINE Project Number: 1155

BTEX 8021B

Project Location: FASKEN - EDDY COUNTY, NM 05/12/2023 Soil

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: SW - 14 (1.5') (H232410-25)

DILX GOZID	iiig/	ng .	Andryzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Analyzed By: JH/

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported:

05/16/2023 Sampling Type:

Project Name: SHELL FEDERAL #2 DISPOSAL LINE Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sample Received By:

Soil Sampling Condition: Cool & Intact

Tamara Oldaker

Sample ID: SW - 15 (3') (H232410-26)

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	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	6 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	112	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.5	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	101 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	6 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Name: SHEL Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 16 (1.5') (H232410-27)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	48.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Analyzed By: 1H /

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported: 05/16/2023

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Project Name:

RTFY 8021R

Project Location: FASKEN - EDDY COUNTY, NM

Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 17 (1.5') (H232410-28)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	48.0	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	11.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Analyzed By: 1H /

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

05/15/2023 05/16/2023

SHELL FEDERAL #2 DISPOSAL LINE

Project Number: 1155

Received:

Reported:

Project Name:

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: SW - 18 (1.5') (H232410-29)

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	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	128	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 05/15/2023 Reported:

05/16/2023 SHELL FEDERAL #2 DISPOSAL LINE

Project Name: Project Number: 1155

Project Location: FASKEN - EDDY COUNTY, NM Sampling Date: 05/12/2023

Sampling Type: Soil

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

Sample ID: SW - 19 (1.5') (H232410-30)

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	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 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	192	16.0	05/15/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	199	99.5	200	4.05	
DRO >C10-C28*	10.6	10.0	05/15/2023	ND	192	95.8	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 %	6 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Manager: Conner Moehring Bill to: (if affiscer) Grant Huckabay/Addison Guelker Work Order Comments ry, Name: Carmona Resources Company, Name: Fasken Oil and Ranch Program: USTPST PRP Irrownfilleds IRC State of Project: s. 310 W Wall St Ste 500 Location, TX 79701 Email: Granth@fort.com/addisong@fort.com/addisong@fort.com/addisong@fort.com/addisong@fort.com Molland, Tx 93707 State of Project: State of Project: Program: USTPST PRP Irrownfilleds IRC State of Project: Numfler Preservati Number: Shell Federal #2 Disposal line Turm Around Turm Around ANALYSIS REQUEST Preservati Number: CRM CRM Dauble Date: 24 Hrs ANALYSIS REQUEST Preservati PLE RECEIPT Temp Blank: Yes (No. Via) Object: Yes (No. Via) Object: ANALYSIS REQUEST Preservati Ves No. Via) Corrected Temperature Yes (No. Via) Object: Yes (No. Via) ANALYSIS REQUEST Preservati ANALYSIS REQUEST Preservati HyBO ₂ : HP HyBO ₂ : HP HyBO ₂ : HP Walson: Via Name:	Page 1 Page Page 1 Page				×	-	1		×		5/12/2023	*)	CS-1 (
Manager: Conner Moehring Bill to: (rt afferent) Grant Huckabay/Addison Guelker Work Order Comments ry Name: Carmona Resources Company Name: Fasken Oil and Ranch Program: UST/PST □PRP □rownfields □RC s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road State of Project: State of Project: Program: UST/PST □PRP □rownfields □RC sate ZIP: Midland, TX 79701 Emall: Granth@fort.com/addisong/fort.com/addisong/fort.com/addisong/fort.com Midland, Texas 79707 State of Project: Reporting:Level III □Level I	Page 1 Page Page 1 Page Page 1 Page Pag	Sample Commen					# of	-		Time	Date	ification	Sample Ident
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Manager: Conner Moehring Bill to: (I different) Grant Huckabay/Addison Guelker Work Order Comments s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road Frogram: UST/IPST □RP □rownfields □RC state zilP: Midland, TX 79701 Email: Granth@fort.com/addisona@fort.com Midland, Texas 79707 Program: UST/IPST □RP □rownfields □RC Name: Shell Federal #2 Disposal line Email: Granth@fort.com/addisona@fort.com ANALYSIS REQUEST Preservati Number: 1155 □Routine □Routine □Routine □Routine □Routine □Routine □Routine □Routine Location Eddy County, New Mexico Due Date: 24 Hrs State of Project: ANALYSIS REQUEST Preservati Location Eddy County, New Mexico Due Date: 24 Hrs State of Project: ANALYSIS REQUEST Preservati Location Eddy County, New Mexico Due Date: 24 Hrs State of Project: Preservati ANALYSIS REQUEST Hysoc, Hq Hysoc, Hq Hysoc, New Assoc, Nasion Hysoc, Nasion Analysis and Name: State of Project: Analysis and Nation Analysis and Nation Preservati None: No Analysis and Nation Hysoc, Nasion Analysis and Nation </td <td> Manager: Conner Moehring Bill to: (et afferent) Grant Huckabay/Addison Guelker Program: UST/PST PRP Involvents Program: UST/PST PRP Program: UST/PST PRP Program</td> <td>NaOH+Ascorbic Acid: SAI</td> <td></td> <td></td> <td>c</td> <td>_</td> <td></td> <td>0.70</td> <td>ng:</td> <td>Temperature Read</td> <td>NA</td> <td>Yes</td> <td>Sample Custody Seals</td>	Manager: Conner Moehring Bill to: (et afferent) Grant Huckabay/Addison Guelker Program: UST/PST PRP Involvents Program: UST/PST PRP Program: UST/PST PRP Program	NaOH+Ascorbic Acid: SAI			c	_		0.70	ng:	Temperature Read	NA	Yes	Sample Custody Seals
Manager. Conner Moehring Bill to: (# different) Grant Huckabay/Addison Guelker Work Order Comments ny Name: Carmona Resources Company Name: Fasken Oil and Ranch Program: UST/PST PRP Prownfields RrC s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road State of Project: State of Project: RRP ate ZIP: Midland, TX 79701 Email: Granth@fort.com/addison@fort.com Midland, Texas 79707 Reporting: Level III Level III ST/UST RRP Name: Shell Federal #2 Disposal line Turn Around ANALYSIS REQUEST Preservati Number: 1155 RRP Due Date: 24 Hrs ANALYSIS REQUEST ANALYSIS REQUEST Preservati Location Eddy County, New Mexico Due Date: 24 Hrs ANALYSIS REQUEST ANALYSIS REQUEST Preservati Location CRM Preservati ANALYSIS REQUEST Preservati ANALYSIS REQUEST Preservati Location CRM Preservati ANALYSIS REQUEST Preservati Preservati Preservati Preservati Preservati Preservati	Manager: Conner Moehring	Zn Acetates NaOH: Zn			hlo		F	0,60		Correction Factor:	NA	Yes	Cooler Custody Seals
Manager. Conner Moehring Bill to: (if different) Grant Huckabay/Addison Guelker Work Order Comments ny Name: Carmona Resources Company Name: Fasken Oil and Ranch Program: UST/PST PRP rownfields RC s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road State of Project: state ZIP: Midland, TX 79701 Email: Granth@fort.com/addisong@fort.com Midland, Texas 79707 Reporting: Level III Level III ST/UST RRP Name: Shell Federal #2 Disposal line Turn Around ANALYSIS REQUEST Preservati Number: 1155 Rousine Analysis Request Analysis Request Cool: Cool Location Eddy County, New Mexico Due Date: 24 Hrs Analysis Request Analysis Request Hg-Pog: Hg Pros. Wall St	## Page 1 Page 1	Nario O. Nario			ide	-	ara	113		Thermometer ID:		Yes	Received Intact:
Manager: Conner Moehring Bill to: (# different) Grant Huckabay/Addison Guelker Work Order Comments my Name: Carmona Resources Company Name: Fasken Oil and Ranch Program: UST/PST PRP Frownfields RC s: 310 W Wall St Ste 500 Address: 8101 Holiday Hill Road Fasken Oil and Ranch Program: UST/PST PRP Frownfields RC state of Project: State of Project: Reporting: Level III PST/UST RRP Name: Shell Federal #2 Disposal line Tum Around ANALYSIS REQUEST Preservati None: No Location Eddy County, New Mexico Due Date: 24 Hrs Location CRM Due Date: 24 Hrs	Manager: Conner Moehring Mork Order Comments Mark Corder Comments Program: UST/PST PRP Inrownfields State of Project: Reporting: Level III Level III ST/UST RRP Maland, TX 79701 Maland, Texas 78707 Maland, Tx 79701 Maland, Tx 79701 Maland, Texas 78707 Maland, Tx 79701 Maland, Tx 79701 Maland, Texas 78707 Maland, Tx 79701 Maland, Tx 79701 Maland, Texas 78707 Maland, Tx 79701 Maland, Tx 79701 Maland, Texas 78707 Maland, Tx 79701 Maland, Tx 79701 Maland, Texas 78707 Maland, Tx	H ₃ PO ₄ : HP			4500	_	met	11	Wet Ice:	Yes (No)	Blank:		SAMPLE RECEIP
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Manager. Conner Moehring Bill to: (if different) Grant Huckabay/Addison Guelker Work Order Comments ny Name: Carmona Resources Carmona Resources Fasken Oil and Ranch Program: UST/PST PRP I rownfields RC RC state of Project: State of Project: Reporting: Level III Level III ST/UST PRP Image: City, State ZIP: Midland, Tx 79707 Midland, Texas 79707 Reporting: Level III Level III Level III Level III Level III PRP ADaPT Other: Name: Shell Federal #2 Disposal line Turn Around Pres. ANALYSIS REQUEST Preservati None: NO	Manager: Conner Moehring							24 Hrs	ie Date:	7	M well New M	Eddy	ojoo radinoon
Manager. Conner Moehring Bill to: (if different) Grant Huckabay/Addison Guelker Work Order Comments ny Name: Carmona Resources Carmona Resources Fasken Oil and Ranch Program: UST/PST PRP I rownfields RC RC s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road State of Project: Reporting: Level III Level III ST/UST RRP ate ZIP: Midland, TX 79701 City, State ZIP: Midland, Texas 79707 Reporting: Level III Level III ST/UST RRP Other: 432-813-6823 Email: Granth@fort.com/addisong@fort.com ANALYSIS REQUEST Preservati	Manager: Conner Moehring Manager: Conner Mo					_	Code	Rush	Routine		1155		Project Number:
Manager: Conner Moehring Bill to: (it different) Grant Huckabay/Addison Guelker Work Order Comments ny Name: Carmona Resources Company Name: Fasken Oil and Ranch Program: UST/PST PRP I rownfields RC s: 310 W Wall St Ste 500 Address: 6101 Holiday Hill Road State of Project: ate ZIP: Midland, TX 79701 City, State ZIP: Midland, Texas 79707 Reporting: Level III Level III ST/UST RRP 432-813-6823 Email: Granth@fort.com/addisong@fort.com/a	Manager: Conner Moehring Mork Order Comments Mork Order Comments Mork Order Comments Mork Order Comments Program: UST/PST PRP Frownfields RC State of Project: Reporting: Level II Level III ST/UST RRP Midland, TX 79701 Email: Granth@forl.com/addisong@forl.com Manager: Conner Moehring Mork Order Comments Mork Order Comments Mork Order Comments Page 1 Mork Order Comments Program: UST/PST PRP Frownfields RC State of Project: Reporting: Level III Level III ST/UST RRP Deliverables: EDD ADaPT Other:	Preservative Cod	EQUEST	ANALYSIS RI				und	Turn Arc	sal line	deral #2 Dispo	Shell Fed	Project Name:
Conner Moehring Conner	Conner Moehring Bill to: (if different) Company Name: Fasken Oil and Ranch Company Name: Fasken Oil and Ranch Frogram: UST/PST PRP Irownfields RC State of Project: Reporting: Level III Level III ST/UST RRP				m	q@forl.co	/addison	.00				132-813-6823	
Conner Moehring Conner Moehring Bill to: (if different) Carmona Resources Company Name: Fasken Oil and Ranch Frogram: UST/PST PRP Frownfields RC State of Project: State of Project:	Conner Moehring Conner Moehring Conner Moehring Bill to: (# different) Carmona Resources Company Name: Co	CKAT			exas 79707	Midland, Te	-	, State ZIP:	Cit		01	Midland, TX 797	
Conner Moehring Bill to: (if different) Carmona Resources Bill to: (if different) Grant Huckabay/Addison Guelker Fasken Oil and Ranch Program: UST/PST PRP Prownfields RC	Conner Moehring Conner Moehring Bill to: (if different) Grant Huckabay/Addison Guelker Work Order Comments				ay Hill Road	8101 Holida	0	iress:	Adi		te 500	310 W Wall St S	
Conner Moehring Bill to: (if different) Grant Huckabay/Addison Guelker Work Order Comments	Conner Moehring Bill to: (It different) Grant Huckabay/Addison Guelker Work Order Comments	LRC.	ST PRP		and Ranch	asken Oil	D	npany Name:	Co		rces	Carmona Resou	
	Page1_	Comments	Work Order	Guelker	abay/Addisor	Grant Huck	0	to: (if different)	Bill		g	Conner Moehring	
Work Order No. H2524													

	Company Signature	hamara	0820	15-23 C	5/23			y: (Signature)	Relinquistled by:	Gunst	
Date/Time	The Constant					om a com	ionaresources,	carmona@carm	(e Carmona m	ail results to Mil	Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Connet
		@carmonaresources.com	ehring@cal	\ \ \		000	>		5/12/2023	9 (4")	SW-9 (4")
			+	+	4 -	+	< >		5/12/2023	8 (4")	SW-8 (4")
			× >	× >		+	×		5/12/2023	7 (3')	SW-7 (3')
			+	+			×		5/12/2023	8 (1")	SW-6 (1")
			+	+	_	-	×		5/12/2023	(4")	SW-5 (4")
			+	+	_		×		5/12/2023	(4')	SW-4 (4')
			+	+			×		5/12/2023	(4")	SW-3 (4')
			+	+			×		5/12/2023	(4")	SW-2 (4")
			+	+		-	×		5/12/2023	(4")	SW-1 (4")
		-	+	+			×		5/12/2023	(1.5')	CS-11 (1.5)
oampie comments			-	+	Cont	Water Comp	_	Time	Date	ntification	Sample Identification
				PH 8		20.00	iture:	Corrected Temperature:			Total Containers:
NaOH+Ascorbic Acid: SAPC			_	_		SUR	ng:	Temperature Reading:	No NA	als: Yes	Sample Custody Seals:
Zn Acetate+NaOH: Zn			_			2000		Correction Factor:	NA	Yes	Cooler Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			-	_	Para	110		Thermometer ID:			Received Intact:
NaHSO4: NABIS			4500)21B + DF	met	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
0			_	_	ers						PO #:
				MR					CRM		Sampler's Name:
HCL: HC HNO: HN				0)		24 Hrs	Due Date:		Eddy County, New Mexico	Eddy (Project Location
			+	-	Code	Rush	Routine		1155		Project Number:
None: NO DI Water H-O	QUEST	ANALYSIS REQUEST	-		Pres.	und	Turn Around	sal line	Shell Federal #2 Disposal line	Shell Fe	Project Name:
- 11			om	m/addisong@forl.com	n/addison	Granth@forl.con	Email: Gra			432-813-6823	Phone:
Other:			Midland, Texas 19707	Midland, I		City, State ZIP:	City		701	Midland, TX 79701	City, State ZIP:
□ST/UST □RRP □LevelIV □	Level III		OTOT Hollday Fill Road	O IO I FIOR		Address:	Add		Ste 500	310 W Wall St Ste 500	Address:
	State of Project:		av Hill Road	RADA Holid		Company Marine.	Con		ırces	Carmona Resources	Company Name:
rownfields RC perfund	Program: UST/PST PRP prownfields		Fasken Oil and Ranch	Fasken Oil		Company Name:			g	Conner Moening	Project Manager:
Work Order Comments	Work Ord	n Guelker	Grant Huckabay/Addison Guel	Grant Huck		o: (if different)	Bill			2	
Page 2 of 3 Page 34											
HIZZAHIO	Work Order No:		Stony	21 00	dill	_					
			Chain of Custody	To the	oin o	2					

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					Dill to: or or or or	2	rant Huck	Grant Huckahav/Addison Gue	Guelker		Work Order	Work Order Comments	-
Project Manager:	Conner Moehring	ing			Bill to: (if different)		Idill Hove	abayinuulau			PROPERT DRP PROV	wnfields RC perfund	_
Company Name:	Carmona Resources	ources			Company Name:	TI	asken Oil	Fasken Oil and Ranch			Program: Usilesi Leve Dioministra Live		
Address:	310 W Wall St Ste 500	Ste 500			Address:	O	101 Holid	6101 Holiday Hill Road				0000	
City State 7IP	Midland, TX 79701	9701			City, State ZIP:	N	lidland, To	Midland, Texas 79707				Г	
Phone:	432-813-6823			Email:	Granth@forl.cc	om/addisong@forl.com	@forf.co	m		L	Deliverables: EDD L ADA	Colei.	
	Chall	oderel #2 Dieno	real line	Turn	Turn Around				ANA	ANALYSIS REQUEST	UEST	Preservative Codes	
Project Name.	Circle .	1155		Routine	✓ Rush	Pres.						None: NO DI Water: H ₂ O	H ₂ O
Project Nulliber				Date:	24 Hrs							Cool: Cool MeOH: Me	w
Project Location	Eddy	CRM	Idvico	Date Date.			MRO)					HCL: HC HNO3: HN	
PO#						ers	0+1						
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet ice:	Yes No	mete	_	4500				NaHSO: NABIS	
Received Intact:		Yes No	Thermometer ID:		110	Para	_	ride				Na ₂ S ₂ O ₃ ; NaSO ₃	
Cooler Custody Seals:	s: Yes	No NIA	Correction Factor:	ā	-0.6c	F	BTE W(G	Chlo				Zn Acetate+NaOH: Zn	
Sample Custody Seals:	als: Yes	NO NA	Temperature Keading.	ading.	27.0		015					NaOH+Ascorbic Acid: SAPC	,,
Total Containers:		Data	Time	Soil	Water Grab/	# of	ТРН					Sample Comments	
				<	direct	+	×	×	+	+			
SW-10 (2.5)	(2.5)	5/12/2023		×	1		+	+					
(1) 11-AAO	2 (31)	5/12/2023		×			×	×					
SW. 13 (1 5)	(1.5)	5/12/2023		×		-	×	×					
SW-14 (1.5)	(1.5)	5/12/2023		×		1	×	×					
SW-15 (3")	5 (3')	5/12/2023		×		-	+	-	-	<u> </u>			
SW-16 (1.5')	(1.5')	5/12/2023		×		_	+	+	-	+			
SW-17 (1.5')	(1.5')	5/12/2023		×		-	+	+	+	+			
SW-18 (1.5")	8 (1.5")	5/12/2023		×		-	+	+	+	+			
SW-19 (1.5')	(1.5')	5/12/2023		×		-	×	×					
Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner	ill results to M	ike Carmona n	ncarmona@ca	rmonaresourc	es.com & Con		ng cmoo	ahring@car	Moehring cmoehring@carmonaresources.com	rces.com			
	/	Relinquished	y: (Signature)				Date/Time	e	h	Rec	Received by (Signature)	Date/Time	
1/1	1	1	-										

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

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

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

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

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

CONDITIONS

Action 223935

CONDITIONS

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	223935
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2228544134 SHELL FEDERAL 2 SWD DISPOSAL LINE, thank you. This closure is approved.	10/31/2023