



#### SITE INFORMATION

Closure Report Flood AFN Federal #1 Lea County, New Mexico NAPP2310842169 Unit M Sec 30 T19S R32E 32.625099°, -103.811663°

**Crude Oil and Produced Water Release** 

Point of Release: Unknown Release Date: 04/05/2023

Volume Released: 5 Barrel of Crude Oil and 0 Barrels of Produced Water Volume Recovered: 5 Barrel of Crude Oil and 0 Barrels of Produced Water

# CARMONA RESOURCES

Prepared for: EOG Resources 5509 Champions Drive Midland, TX 79706

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

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



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May 8, 2023

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

Re: **Closure Report** 

> Flood AFN Federal #1 **EOG Resources Inc.**

Incident #: NAPP2310842169

Site Location: Unit M Sec 30 T19S R32E (Lat 32.625099°, Long -103.811663°)

Lea County, New Mexico

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), Carmona Resources, LLC has prepared this letter to document the Flood AFN Federal #1 site activities. The site is located at 32.625099°, -103.811663° within Unit M Sec 30 T19S R32E, in Lea County, New Mexico (Figures 1 and 2).

#### 1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 5, 2023. The cause of the release is unknown stained soil was found during reclamation activities. It released approximately five (5) barrels of crude oil and five (5) barrels of produced water. Approximately zero (0) barrels of crude oil were recovered, and zero (0) barrels of produced water were recovered. The impacted area occurred on the pad shown in Figure 3. The initial C-141 form is attached in Appendix C.

### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 0.88 miles Southwest of the site in S36, T19S, R31E and was drilled in 1982. The well has a reported depth to groundwater of 130' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

#### 3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.



#### **4.0 Site Assessment Activities**

On April 5, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. Before Carmona Resources personnel were on location, the areas of S-1 and S-2 were excavated to a depth of 7.5' (bgs). A total of four (4) sample points (S-1 through S-4) and eight (8) horizontal samples (H-1 through H-8) were advanced to depths ranging from the surface to 6" bgs inside and surrounding the release areas to evaluate the vertical and horizontal extent. 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 Xenco Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. The sample locations are shown in Figure 3. Refer to Table 1.

See Table 1 for the analytical results.

#### **5.0 Remediation Activities**

Carmona Resources instructed EOG to have the crew excavate the area an additional foot. The staff then returned on-site to collect confirmation samples and document site activities to ensure contamination was removed. Before collecting composite confirmation samples, the NMOCD division office was notified via email on April 20, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of five (5) floor confirmation samples were collected (CS-1 through CS-5), and seven (7) sidewall samples (SW-1 through SW-7) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. 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 4.

All confirmation samples collected were below the reclamation and regulatory criteria. See Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material. Approximately 310 cubic yards of material were excavated and transported offsite for proper disposal.

#### **6.0 Conclusions**

Based on the assessment results and the analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

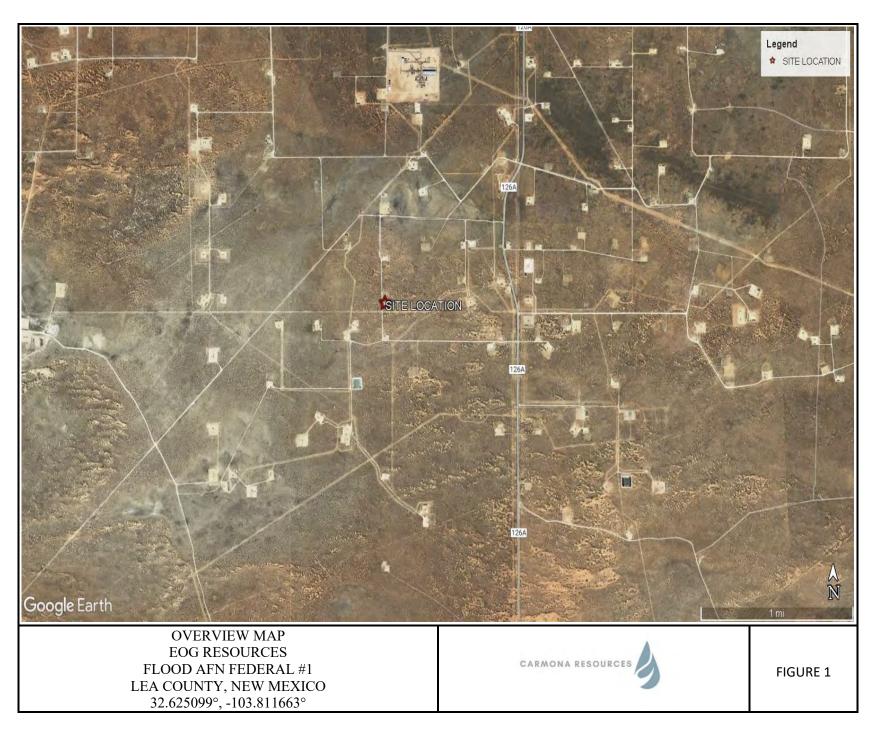
Carmona Resources, LLC

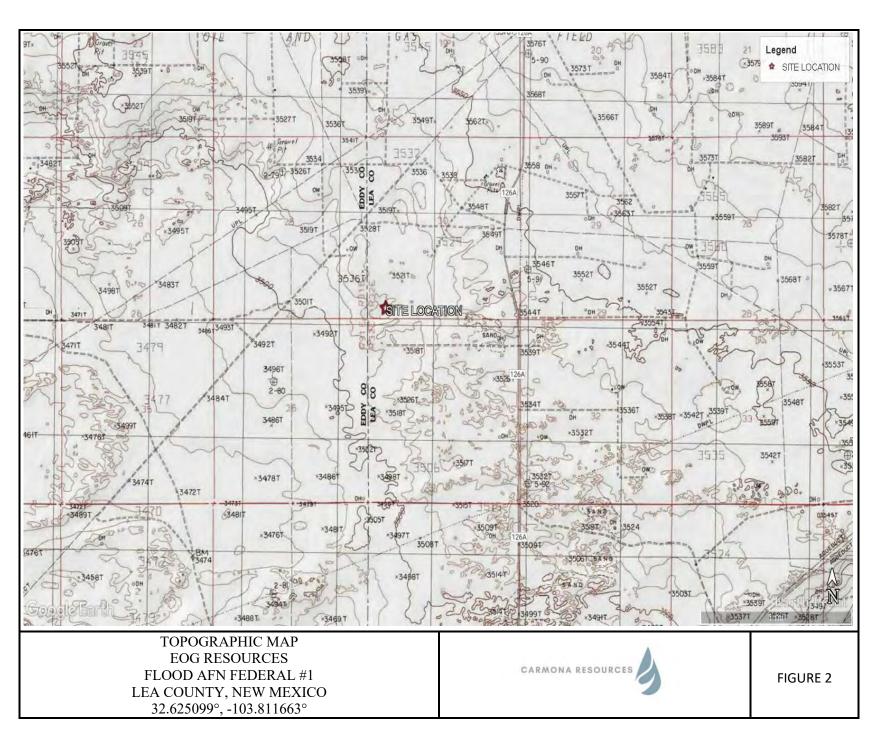
Mike Carmona

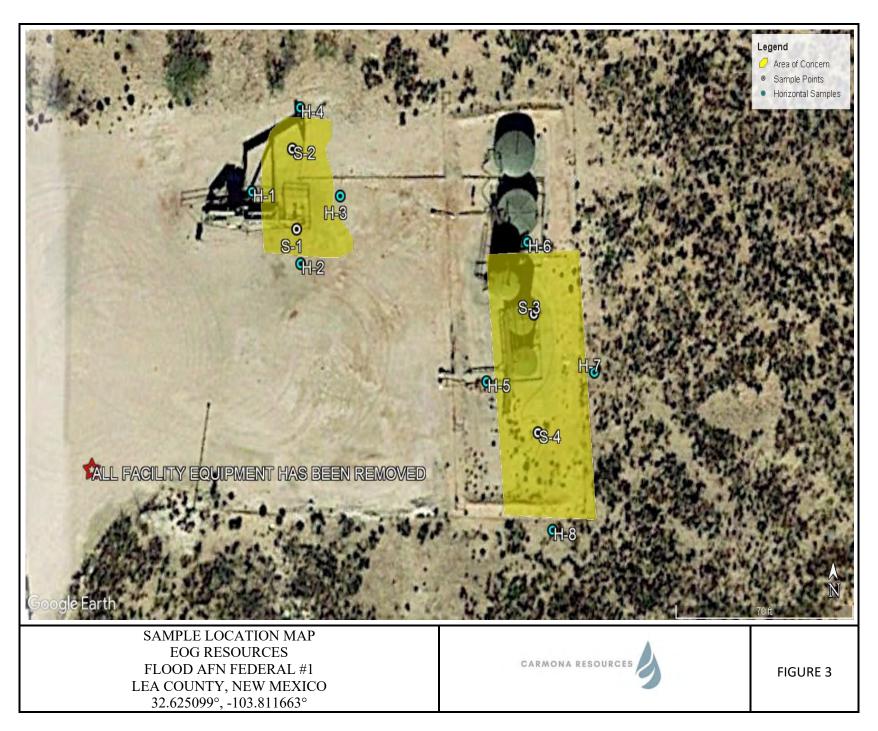
Clinton Merritt Environmental Manager Sr. Project Manager

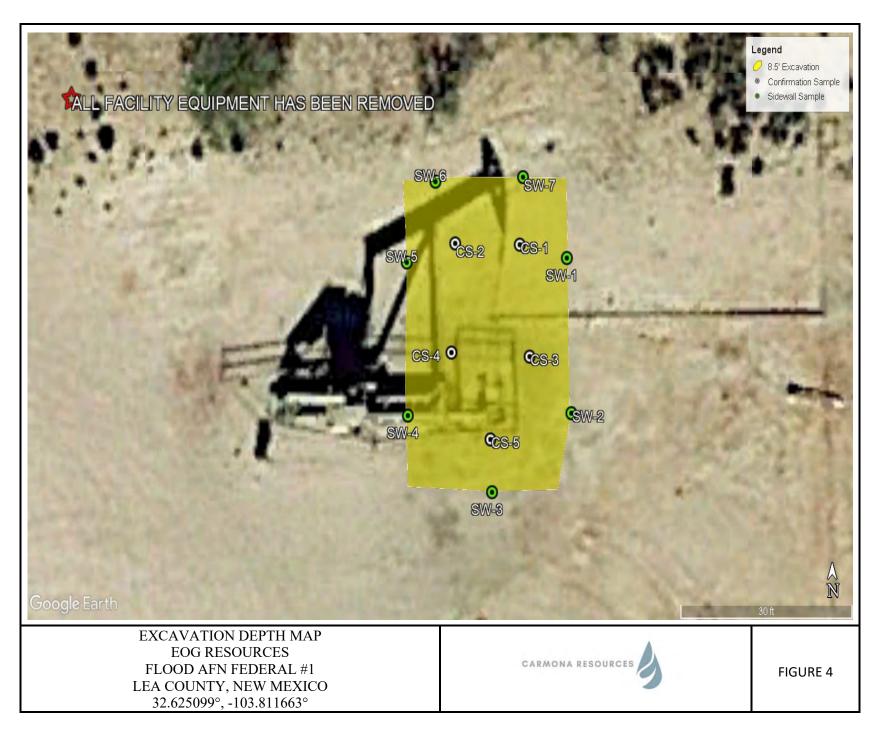
# **FIGURES**

# CARMONA RESOURCES









# **APPENDIX A**



Table 1
EOG
Flood AFN Federal #1
Lea County, New Mexico

0	Bette	Don't (b)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (In)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-1	4/5/2023	0-3"	<50.0	2,450	368	2,820	<0.00200	<0.00200	<0.00200	0.0143	0.0143	2,060
0-1	"	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	3,160
S-2	4/5/2023	0-6"	61.8	2,250	336	2,650	<0.00201	<0.00201	<0.00201	0.0156	0.0156	2,120
S-3	4/5/2023	0-6"	<49.9	72.4	<49.9	72.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.0
S-4	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	137
H-1	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	329
H-2	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	165
H-3	4/5/2023	0-6"	<49.9	141	<49.9	141	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	205
11-3	4/20/2023	0-6"	<49.9	86.0	<49.8	86.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	343
H-4	4/5/2023	0-6"	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	444
H-5	4/5/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	70.3
H-6	4/5/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	118
H-7	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	61.5
H-8	4/5/2023	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	102
	ry Criteria <sup>A</sup>					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

In - Inches

(S) Sample Point

(H) Horizontal Sample

Removed

Table 2
EOG Resources
Flood AFN Federal #1
Lea County, New Mexico

Commis ID	Doto	Daniel (64)		TPF	l (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)
CS-1	4/20/2023	8.5	<50.0	74.0	<50.0	74.0	<0.00199	0.00943	<0.00199	<0.00398	0.00943	300
CS-2	4/20/2023	8.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	351
CS-3	4/20/2023	8.5	<50.0	50.8	<50.0	50.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	394
CS-4	4/20/2023	8.5	<49.8	74.4	<49.8	74.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	392
CS-5	4/20/2023	8.5	<49.9	72.7	<49.9	72.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	365
SW-1	4/20/2023	8.5	<50.0	81.5	<50.0	81.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	318
SW-2	4/20/2023	8.5	<49.9	69.3	<49.9	69.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	345
SW-3	4/20/2023	8.5	<49.8	67.7	<49.8	67.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	334
SW-4	4/20/2023	8.5	<49.9	64.0	<49.9	64.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	363
SW-5	4/20/2023	8.5	<49.9	57.7	<49.9	57.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	360
SW-6	4/20/2023	8.5	<50.0	58.8	<50.0	58.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	368
SW-7	4/20/2023	8.5	<50.0	85.3	<50.0	85.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	328
	ry Criteria A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

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

# **APPENDIX B**

# CARMONA RESOURCES

## PHOTOGRAPHIC LOG

#### **EOG Resources**

### Photograph No. 1

Facility: Flood AFN Federal #1

County: Lea County, New Mexico

**Description:** 

View North, area of S-1 and S-2.



#### Photograph No. 2

Facility: Flood AFN Federal #1

County: Lea County, New Mexico

**Description:** 

View Southwest, area of S-3 and S-4.



### Photograph No. 3

Facility: Flood AFN Federal #1

County: Lea County, New Mexico

**Description:** 

View North, area of Confirmation Samples (1-5).





# **APPENDIX C**

# CARMONA RESOURCES

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2310842169
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party EOG Resources				OGRID 7377				
Contact Nam	ne Todd We	ells			Contact Telephone (432) 686-3613			
Contact email Todd_Wells@eogresources.com				Incident #	# (assigned by OCD) nAPP2310842169			
Contact mail 79706	Contact mailing address 5509 Champions Drive Midland, TX 79706							
			Location	of R	elease S	Source		
Latitude 32.6	25099°				Longitude	-103.811663°		
			(NAD 83 in d	ecimal de	grees to 5 deci	simal places)		
Site Name F	lood AFN F	ed #1			Site Type			
Date Release	Discovered	4/5/23			API# (if ap	pplicable) 30-025-30944		
II '. I	G 4:	T 1 '	l n		C			
Unit Letter M	Section 30	Township 19S	Range 32E	Lea	Cou	unty		
1V1	30	193	32E	Lea				
Surface Owne		Federal Tr	Nature an	d Vol	lume of	Release		
Crude Oi		Volume Release		n calculat	ions or specifi	ic justification for the volumes provided below)  Volume Recovered (bbls) 0		
Produced	Water	Volume Release	ed (bbls) 5			Volume Recovered (bbls) 0		
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride	e in the	⊠ Yes □ No		
Condensa	ite	Volume Release				Volume Recovered (bbls)		
Natural G	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			)	Volume/Weight Recovered (provide units)				
4/5/23. The	impacted soi		n unknown releas	se at an	unknown ti	ed soils were noticed in the area around the wellhead on ime. Based on the volume of impacted soils, the release recovered.		

Received by OCD: 5/10/2023 12:33:56 PM State of New Mexico
Page 2 Oil Conservation Division

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	$u \leq 1$	V ILE	700	47 1	E #	
				_	-4	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the resporelease at an unknown time.	nsible party consider this a major release? Unknown volume of
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
If VEC i 1:-4	-tii to the OCD2 December 2 To a	
unknown volume of relea		hom? When and by what means (phone, email, etc)? No, it was an
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
I hereby certify that the infor	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
		ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In
and/or regulations.	1 a C-141 report does not refleve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: Todd	Wells Title:	Environmental Specialist
Signature: Toda	d Wells	Date: <u>4/18/23</u>
email: <u>Todd_V</u>	Wells@eogresources.com_	Telephone: (432) 686-3613
OCD Only		
	lyn Harimon	Date: 04/18/2023
Received by:Joce	iyii i iailiiloii	Date:04/18/2023_

Received by OCD: 5/10/2023 12:33:56 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

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## **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ 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 <b>not</b> 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.

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: Todd Wells	Date:5/10/23
email:	Telephone:
OCD Only	
Received by:	Date:05/10/2023

Received by OCD: 5/10/2023 12:33:56 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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## Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	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	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.					
Printed Name:	Title:				
Signature: Todd Wells	Date: <u>5/10/23</u>				
email:	Telephone:				
OCD Only					
Received by: Jocelyn Harimon	Date:05/10/2023				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: Nelson Velez	Date: 07/28/2023				
Printed Name: Nelson Velez	Title:Environmental Specialist - Adv				

From: Enviro, OCD, EMNRD

Sent: Wednesday, April 19, 2023 2:24 PM

**To:** Mike Carmona

Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

Subject: RE: [EXTERNAL] EOG Flood AFN Fed. #1 Sampling Notification- Incident No. nAPP2310842169

Mike,

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

JH

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



From: Mike Carmona < Mcarmona@carmonaresources.com >

Sent: Tuesday, April 18, 2023 12:25 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Todd Wells < Todd\_Wells@eogresources.com>; Conner Moehring

<Cmoehring@carmonaresources.com>

Subject: [EXTERNAL] EOG Flood AFN Fed. #1 Sampling Notification- Incident No. nAPP2310842169

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

Good morning,

This email serves as a notification for confirmation sampling on the EOG – Flood AFN Fed #1. Sampling is scheduled to begin on Thursday afternoon, April 20<sup>th</sup>. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident No.nAPP2310842169

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

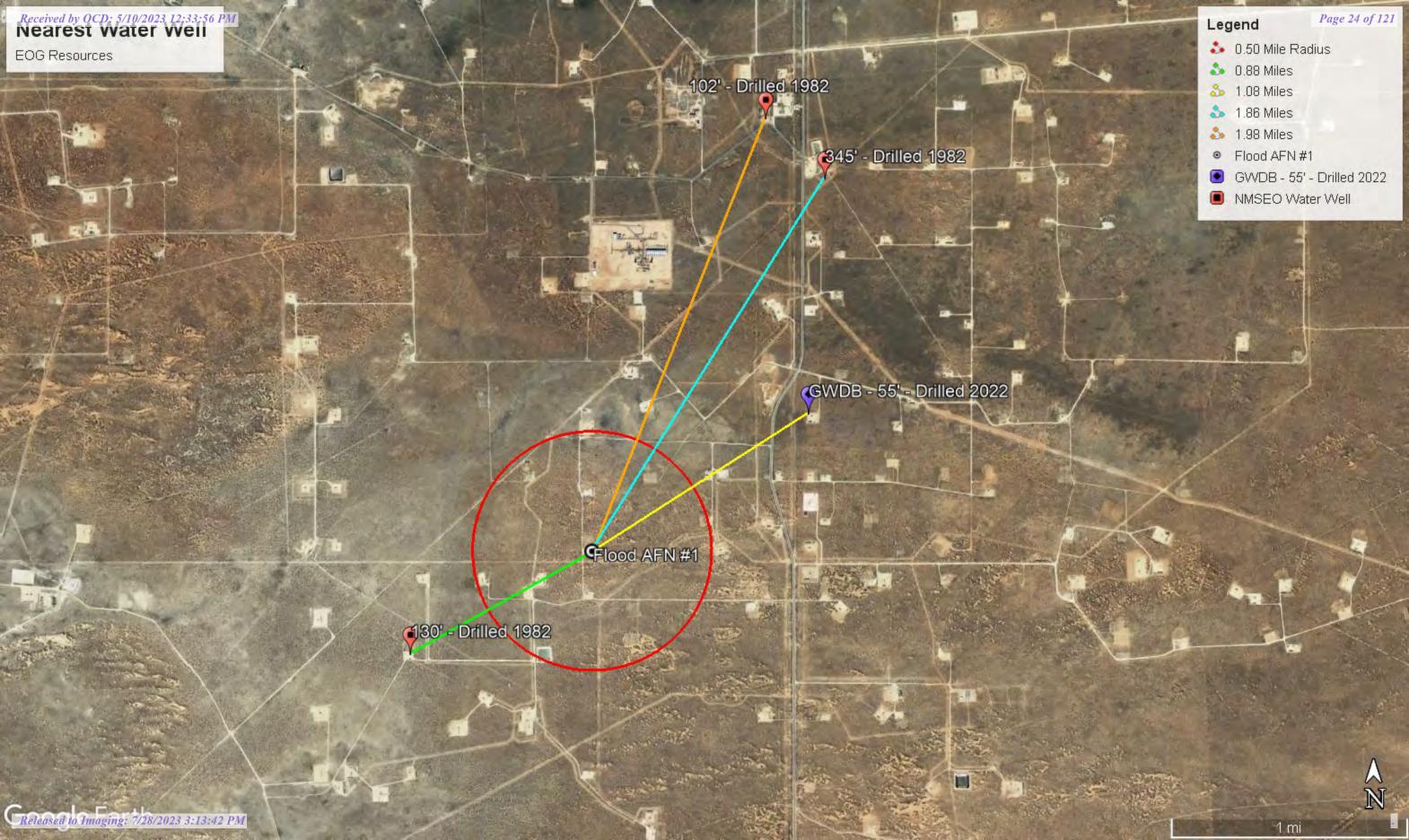
M: 432-813-1992

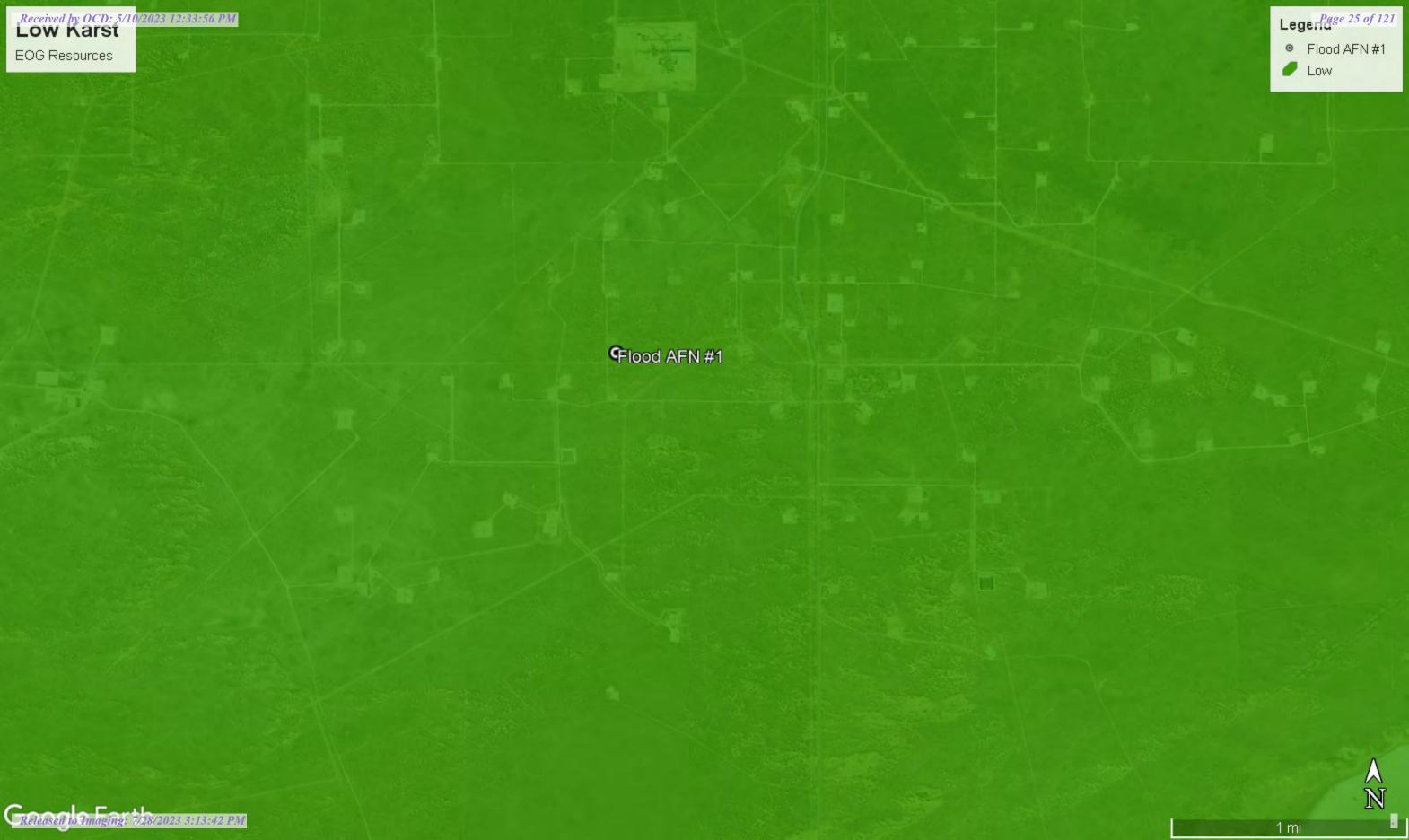
Mcarmona@carmonaresources.com



# **APPENDIX D**

# CARMONA RESOURCES







# 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 Sub-		Q (	Q Q							Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
CP 00642 POD1	СР	ED		2 2	25	19S	31E	611025	3611657* 🌍	1383	250		
CP 00641 POD1	СР	ED		4 1	36	19S	31E	610247	3609634* 🌍	1425	300	130	170
CP 00639 POD1	СР	LE		3 1	20	19S	32E	613029	3612880* 🌍	2966	350	345	5
CP 00563 POD1	СР	LE	1	1 2	19	19S	32E	612118	3613376* 🌍	3092	300		
CP 00640 POD1	СР	LE	;	2 2	19	19S	32E	612621	3613280* 🌍	3144	260	102	158
CP 01656 POD3	СР	LE	3	4 3	17	19S	32E	613374	3613633 🌍	3790	30		
CP 01656 POD2	СР	LE	3	4 3	17	198	32E	613364	3613648 🌎	3798	70		
CP 01656 POD1	СР	LE	3	4 3	17	19S	32E	613368	3613646 🌍	3799	70		

Average Depth to Water: 192 feet

> Minimum Depth: 102 feet

Maximum Depth: 345 feet

**Record Count: 8** 

**UTMNAD83 Radius Search (in meters):** 

Northing (Y): 3610350 Easting (X): 611480 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.



## 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

CP 00641 POD1

19S 31E

610247 3609634\*

**Driller License:** 882 **Driller Company:** 

LARRY'S DRILLING & PUMP CO.

**Driller Name:** 

FELKINS, LARRY

02/11/1982

**Drill Finish Date:** 02/12/1982 **Plug Date:** 

**Drill Start Date:** Log File Date:

02/23/1982

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

300 feet

Depth Water: 130 feet

\*UTM location was derived from PLSS - see Help

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

4/10/23 7:37 AM

POINT OF DIVERSION SUMMARY



Project Name : Southern California 29 Federal 16H Date : Wednesday, August 31, 2022

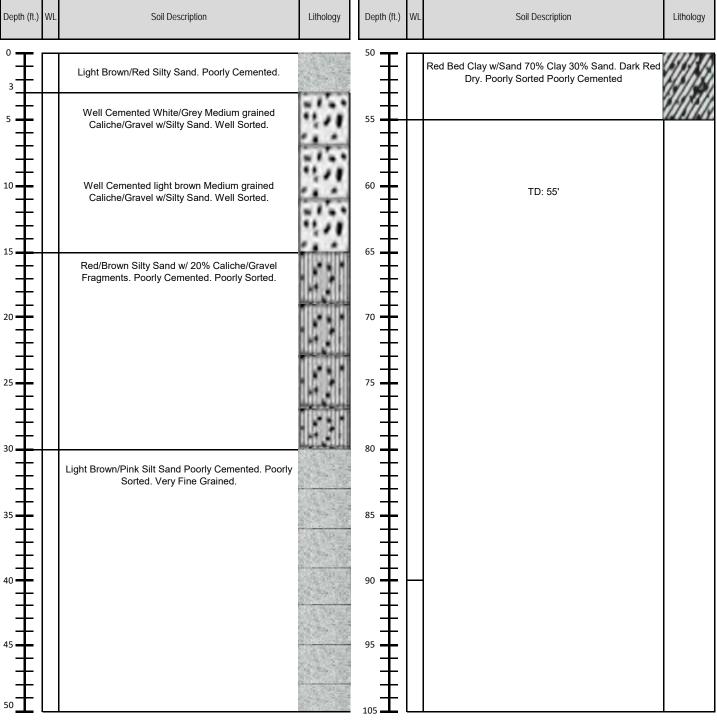
Project No.: Sampler: A. Thielke

Location : Lea County, New Mexico

Coordinates : 32.63343, -103.79605

Driller : Scarbourgh Drilling

Elevation : Method : Air Rotary



Comments: Boring terminated at 55' at 10:00 Central Time with no presence of groundwater or moisture, checked for moisture on 9/7/2022. No moisture present.



## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

19S 32E

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

CP 00639 POD1

Q64 Q16 Q4 Sec Tws Rng

3612880\*

**Driller License:** 882 **Driller Company:** 

LARRY'S DRILLING & PUMP CO.

613029

**Driller Name:** 

FELKINS, LARRY

**Drill Finish Date:** 

02/10/1982 **Plug Date:** 

**Drill Start Date:** Log File Date:

02/09/1982 03/23/1982

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

**Estimated Yield:** 

**Casing Size:** 

Pipe Discharge Size:

Depth Well:

350 feet

Depth Water:

345 feet

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.

4/10/23 7:38 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## 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** 

CP 00640 POD1

Q64 Q16 Q4 Sec Tws Rng

32E

612621 3613280\*

**Driller License:** 882 **Driller Company:** 

LARRY'S DRILLING & PUMP CO.

**Driller Name:** 

FELKINS, LARRY

**Drill Finish Date:** 

02/09/1982 **Plug Date:** 

**Drill Start Date:** 

02/08/1982

Log File Date:

03/04/1982

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

260 feet

Depth Water: 102 feet

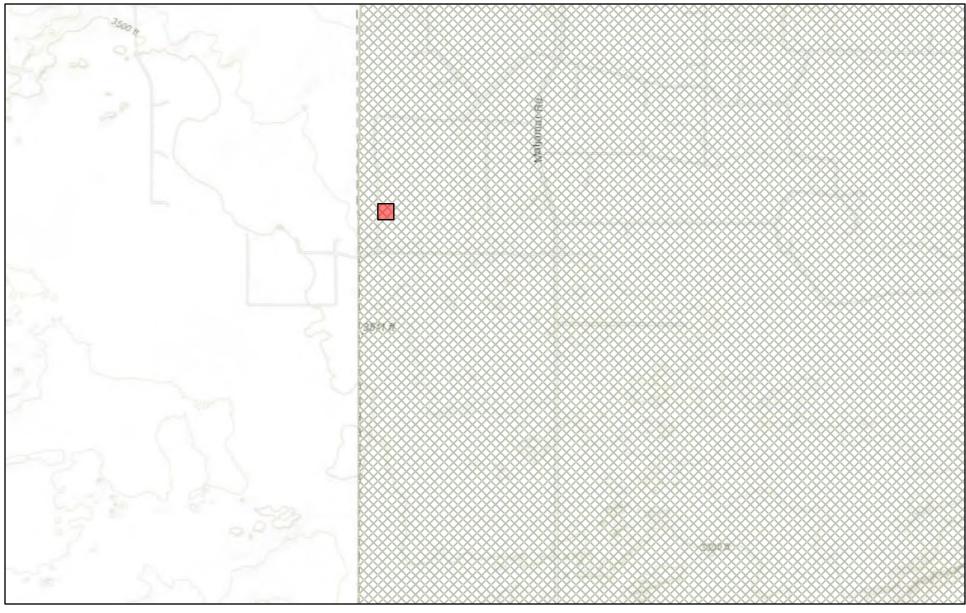
\*UTM location was derived from PLSS - see Help

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

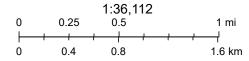
4/10/23 7:39 AM

POINT OF DIVERSION SUMMARY

## New Mexico NFHL Data



April 10, 2023



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**

## PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701

ivilulariu, Texas 1910 i

Generated 4/13/2023 12:48:50 PM

## **JOB DESCRIPTION**

Flood AFN #1 SDG NUMBER Lea County, NM

## **JOB NUMBER**

880-27075-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

## **Eurofins Midland**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 4/13/2023 12:48:50 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

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Client: Carmona Resources
Project/Site: Flood AFN #1
Laboratory Jo

Laboratory Job ID: 880-27075-1 SDG: Lea County, NM

# **Table of Contents**

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### **Definitions/Glossary**

Job ID: 880-27075-1 Client: Carmona Resources Project/Site: Flood AFN #1 SDG: Lea County, NM

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

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

Percent Recovery %R 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)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Released to Imaging: 7/28/2023 3:13:42 PM

**TNTC** Too Numerous To Count

**Eurofins Midland** 

#### **Case Narrative**

Client: Carmona Resources Project/Site: Flood AFN #1 Job ID: 880-27075-1 SDG: Lea County, NM

Job ID: 880-27075-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-27075-1

#### Receipt

The samples were received on 4/12/2023 9:51 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 3.1°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-27075-1), S-1 (0-3") (880-27075-2), S-2 (0-0.5') (880-27075-3), S-3 (0-0.5') (880-27075-4) and S-4 (0-0.5') (880-27075-5).

#### GC VOA

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 surrogate recovery for the blank associated with preparation batch 880-50830 and analytical batch 880-50959 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-26926-A-86-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-50958 and analytical batch 880-50962 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-50958/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-27063-A-6-B MS) and (880-27063-A-6-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-3 (0-0.5') (880-27075-4). 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.

#### 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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SDG: Lea County, NM

**Client Sample ID: S-1 (0-0.5')** 

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Client: Carmona Resources

Project/Site: Flood AFN #1

Lab Sample ID: 880-27075-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				04/12/23 11:52	04/12/23 13:36	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/12/23 11:52	04/12/23 13:36	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/12/23 15:53	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	11	40.0						
-		U	49.9		mg/Kg			04/13/23 11:28	1
: Method: SW846 8015B NM - Dies					mg/Kg			04/13/23 11:28	1
	sel Range Orga			MDL		D	Prepared	04/13/23 11:28  Analyzed	1 Dil Fac
Analyte	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 04/12/23 10:00		·
Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC)  RL 49.9	MDL	Unit mg/Kg	<u> </u>	04/12/23 10:00	<b>Analyzed</b> 04/12/23 21:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC)  RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/12/23 10:00 04/12/23 10:00	Analyzed 04/12/23 21:09 04/12/23 21:09	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U	(GC)  RL 49.9  49.9  49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	04/12/23 10:00 04/12/23 10:00 04/12/23 10:00	Analyzed 04/12/23 21:09 04/12/23 21:09 04/12/23 21:09	

Client Sample ID: S-1 (0-3") Lab Sample ID: 880-27075-2 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

RL

25.1

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/12/23 16:19

Dil Fac

Analyte

Chloride

Date Received: 04/12/23 09:51

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

3160

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
m-Xylene & p-Xylene	0.00894		0.00401		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
o-Xylene	0.00531		0.00200		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Xylenes, Total	0.0143		0.00401		mg/Kg		04/12/23 11:52	04/12/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				04/12/23 11:52	04/12/23 13:56	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/12/23 11:52	04/12/23 13:56	1

Client: Carmona Resources Project/Site: Flood AFN #1

SDG: Lea County, NM

Client Sample ID: S-1 (0-3")

Lab Sample ID: 880-27075-2

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

_ub	Odinpic	ID.	000-21010-2	
			Matrix: Solid	

04/12/23 16:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0143		0.00401		mg/Kg			04/12/23 15:53	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2820		50.0		mg/Kg			04/13/23 11:30	1
Method: SW846 8015B NM - Die	esel 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		04/12/23 10:00	04/12/23 17:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	2450		50.0		mg/Kg		04/12/23 10:00	04/12/23 17:40	1
C10-C28)									
Oll Range Organics (Over	368		50.0		mg/Kg		04/12/23 10:00	04/12/23 17:40	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				04/12/23 10:00	04/12/23 17:40	1
o-Terphenyl	108		70 - 130				04/12/23 10:00	04/12/23 17:40	1
Method: EPA 300.0 - Anions, Io	n Chromatogran	hy - Solubl	<b>e</b>						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: S-2 (0-0.5')** Lab Sample ID: 880-27075-3 Date Collected: 04/05/23 00:00 Matrix: Solid

24.9

mg/Kg

2060

Date Received: 04/12/23 09:51

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	
Toluene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	•
m-Xylene & p-Xylene	0.00949		0.00402		mg/Kg		04/12/23 11:52	04/12/23 14:17	
o-Xylene	0.00606		0.00201		mg/Kg		04/12/23 11:52	04/12/23 14:17	
Xylenes, Total	0.0156		0.00402		mg/Kg		04/12/23 11:52	04/12/23 14:17	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				04/12/23 11:52	04/12/23 14:17	
1,4-Difluorobenzene (Surr)	101		70 - 130				04/12/23 11:52	04/12/23 14:17	
Method: TAL SOP Total BTEX	: - Total BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0156		0.00402		mg/Kg			04/12/23 15:53	•
Method: SW846 8015 NM - Di	esel Range Organ	ics (DRO) (	GC)						
		ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Di Analyte Total TPH		, ,,	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/13/23 11:30	Dil Fac
Analyte	Result 2650	Qualifier	RL 49.8	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result 2650  Diesel Range Orga	Qualifier	RL 49.8			<u>D</u>	Prepared Prepared		Dil Fac

Client: Carmona Resources Project/Site: Flood AFN #1

SDG: Lea County, NM

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

Lab Sample ID: 880-27075-3

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	2250		49.8		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
C10-C28)									
Oll Range Organics (Over	336		49.8		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/12/23 10:00	04/12/23 18:03	1
o-Terphenyl	99		70 <sub>-</sub> 130				04/12/23 10:00	04/12/23 18:03	1

8

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride212024.9mg/Kg04/12/23 16:395

10

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

Lab Sample ID: 880-27075-4

Matrix: Solid

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

atrix: Solic

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/12/23 11:52	04/12/23 16:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/23 11:52	04/12/23 16:33	1

14

<b>Method: TAL SOP Total BTEX - Total E</b>	<b>STEX Cal</b>	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 09:53	1

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fatter Total TPH 49.9 mg/Kg 04/13/23 11:30

Liotaiiii					99			
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Casalina Banga Organica		11	40.0		malka		04/12/23 10:00	04/12/23 18:26

04/12/23 18:25 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 72.4 49.9 mg/Kg 04/12/23 10:00 04/12/23 18:25 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 04/12/23 10:00 04/12/23 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	04/12/23 10:00	04/12/23 18:25	1
o-Terphenyl	147	S1+	70 - 130	04/12/23 10:00	04/12/23 18:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride88.04.98mg/Kg04/12/23 16:431

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Dil Fac

Client: Carmona Resources

Job ID: 880-27075-1
Project/Site: Flood AFN #1

SDG: Lea County, NM

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

Lab Sample ID: 880-27075-5

Matrix: Solid

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:54	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/12/23 11:52	04/12/23 16:54	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/12/23 11:52	04/12/23 16:54	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			04/13/23 09:53	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
			•	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 04/13/23 11:30	
Analyte Total TPH	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	<b>RL</b> 50.0			<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg			04/13/23 11:30	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 unics (DRO) Qualifier U	70.0 (GC)		mg/Kg		Prepared	04/13/23 11:30  Analyzed	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  sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U	RL     50.0		mg/Kg  Unit mg/Kg		Prepared 04/12/23 10:00	04/13/23 11:30  Analyzed  04/12/23 18:48	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	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/12/23 10:00 04/12/23 10:00	04/13/23 11:30  Analyzed 04/12/23 18:48 04/12/23 18:48	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)  Surrogate	Result	Qualifier U unics (DRO) Qualifier U	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/12/23 10:00 04/12/23 10:00 04/12/23 10:00	04/13/23 11:30  Analyzed 04/12/23 18:48 04/12/23 18:48	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 unics (DRO) Qualifier U	RL   50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/12/23 10:00 04/12/23 10:00 04/12/23 10:00 Prepared	04/13/23 11:30  Analyzed 04/12/23 18:48 04/12/23 18:48 04/12/23 18:48  Analyzed	Dil Fac
Analyte	Result   <50.0	Qualifier U  unics (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 04/12/23 10:00 04/12/23 10:00 04/12/23 10:00  Prepared 04/12/23 10:00	04/13/23 11:30  Analyzed 04/12/23 18:48  04/12/23 18:48  Analyzed  04/12/23 18:48	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)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <50.0	Qualifier U  unics (DRO) Qualifier U  U  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 04/12/23 10:00 04/12/23 10:00 04/12/23 10:00  Prepared 04/12/23 10:00	04/13/23 11:30  Analyzed 04/12/23 18:48  04/12/23 18:48  Analyzed  04/12/23 18:48	Dil Face 1 1 1 Dil Face

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## **Surrogate Summary**

Client: Carmona Resources Job ID: 880-27075-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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)	
880-26797-A-1-E MS	Matrix Spike	111	105	
880-26797-A-1-F MSD	Matrix Spike Duplicate	109	104	
880-27075-1	S-1 (0-0.5')	86	96	
880-27075-2	S-1 (0-3")	141 S1+	90	
880-27075-3	S-2 (0-0.5')	115	101	
880-27075-4	S-3 (0-0.5')	85	94	
880-27075-5	S-4 (0-0.5')	102	84	
LCS 880-50827/1-A	Lab Control Sample	107	106	
LCSD 880-50827/2-A	Lab Control Sample Dup	106	109	
MB 880-50827/5-A	Method Blank	79	96	

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)	
880-26926-A-86-C MS	Matrix Spike	100	77	
880-26926-A-86-D MSD	Matrix Spike Duplicate	93	71	
880-27063-A-6-B MS	Matrix Spike	130	135 S1+	
880-27063-A-6-C MSD	Matrix Spike Duplicate	128	132 S1+	
880-27075-1	S-1 (0-0.5')	100	85	
880-27075-2	S-1 (0-3")	110	108	
880-27075-3	S-2 (0-0.5')	106	99	
880-27075-4	S-3 (0-0.5')	124	147 S1+	
880-27075-5	S-4 (0-0.5')	102	124	
LCS 880-50830/2-A	Lab Control Sample	112	97	
LCS 880-50958/2-A	Lab Control Sample	116	134 S1+	
LCSD 880-50830/3-A	Lab Control Sample Dup	93	81	
LCSD 880-50958/3-A	Lab Control Sample Dup	103	121	
MB 880-50830/1-A	Method Blank	135 S1+	123	
MB 880-50958/1-A	Method Blank	116	148 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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### **QC Sample Results**

Client: Carmona Resources Job ID: 880-27075-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50827/5-A

**Matrix: Solid** Analysis Batch: 50945 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50827

	мв	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/10/23 11:52	04/12/23 10:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 11:52	04/12/23 10:50	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-50827/1-A

Matrix: Solid

Analysis Batch: 50945

Prep Type: Total/NA

Prep Batch: 50827

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	
Toluene	0.100	0.09878		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1150		mg/Kg		115	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-50827/2-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	<b>Control Sam</b>	ple Dup
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Prep Type: Total/NA

Prep Batch: 50827

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	7	35
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

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

Prep Batch: 50827

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0996	0.1070		mg/Kg	_	107	70 - 130	
Toluene	<0.00198	U	0.0996	0.1020		mg/Kg		102	70 - 130	

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### QC Sample Results

Client: Carmona Resources Job ID: 880-27075-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Lab Sample ID: 880-26797-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 50945

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.0996	0.1029		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2210		mg/Kg		111	70 - 130	
o-Xylene	<0.00198	U	0.0996	0.1134		mg/Kg		114	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 880-26797-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 50945

Prep Type: Total/NA

Prep Batch: 50827

Prep Batch: 50827

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0994 Benzene <0.00198 U 0.1012 mg/Kg 102 70 - 130 6 35 Toluene <0.00198 U 0.09706 0.0994 mg/Kg 98 70 - 130 5 35 Ethylbenzene <0.00198 U 0.0994 0.09702 mg/Kg 98 70 - 130 6 35 <0.00396 U 0.199 0.2091 70 - 130 35 m-Xylene & p-Xylene mg/Kg 105 6 <0.00198 U 0.0994 0.1073 108 70 - 130 o-Xylene mg/Kg 5

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-50830/1-A Client Sample ID: Method Blank **Matrix: Solid** 

Analysis Batch: 50959

Prep Type: Total/NA Prep Batch: 50830

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/11/23 12:59	04/12/23 09:02	1
o-Terphenyl	123		70 - 130	04/11/23 12:59	04/12/23 09:02	1

Lab Sample ID: LCS 880-50830/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 50959** 

Prep Type: Total/NA Prep Batch: 50830

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	965.8	-	mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1056		mg/Kg		106	70 - 130	
C10-C28)								

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Lab Sample ID: LCSD 880-50830/3-A

Job ID: 880-27075-1

SDG: Lea County, NM

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

Lab Sample ID: LCS 880-50830/2-A

109 109

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 50959

Client: Carmona Resources

Project/Site: Flood AFN #1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50830

	200	200	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	97		70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

87

Prep Type: Total/NA

Prep Batch: 50830

20

Analysis Batch: 50959 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1107 111 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

866.1

mg/Kg

1000

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane o-Terphenyl 81 70 - 130

Lab Sample ID: 880-26926-A-86-C MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 50959** 

Diesel Range Organics (Over

Prep Type: Total/NA

Prep Batch: 50830

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 922.3 mg/Kg 93 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 962.6 mg/Kg 97 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 100 70 - 130 o-Terphenyl 77

Lab Sample ID: 880-26926-A-86-D MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 50959

Prep Type: Total/NA

Prep Batch: 50830

	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	<49.9	U	996	878.3		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	875.3		mg/Kg		88	70 - 130	10	20

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 93 70 - 130 71 70 - 130 o-Terphenyl

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SDG: Lea County, NM

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

Lab Sample ID: MB 880-50958/1-A

**Matrix: Solid** 

Analysis Batch: 50962

Client: Carmona Resources

Project/Site: Flood AFN #1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50958

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 08:16	04/12/23 09:02	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/12/23 08:16	04/12/23 09:02	1
o-Terphenyl	148	S1+	70 - 130				04/12/23 08:16	04/12/23 09:02	1

Lab Sample ID: LCS 880-50958/2-A

**Matrix: Solid** 

Analysis Batch: 50962

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 50958

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1120 112 70 - 130 mg/Kg (GRO)-C6-C10 1000 1006 Diesel Range Organics (Over mg/Kg 101 70 - 130C10-C28)

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 116 70 - 130 o-Terphenyl 134 S1+ 70 - 130

Lab Sample ID: LCSD 880-50958/3-A

**Matrix: Solid** 

Analysis Batch: 50962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50958

Spike LCSD LCSD RPD %Rec Limit Analyte Added Result Qualifier %Rec RPD Unit D Limits Gasoline Range Organics 1000 1065 mg/Kg 106 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 934.1 mg/Kg 93 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-27063-A-6-B MS

**Matrix: Solid** 

Analysis Batch: 50962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50958

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	998	1173		mg/Kg		118	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	998	1302		mg/Kg		130	70 - 130	
C10-C28)										

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Lab Sample ID: 880-27063-A-6-B MS

Job ID: 880-27075-1 SDG: Lea County, NM

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

MS MS

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**Matrix: Solid** 

Client: Carmona Resources Project/Site: Flood AFN #1

Analysis Batch: 50962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50958

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 130 70 - 130 o-Terphenyl 135 S1+ 70 - 130

Lab Sample ID: 880-27063-A-6-C MSD

**Matrix: Solid** 

Analysis Batch: 50962

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Prep Type: Total/NA

Prep Batch: 50958

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <50.0 U 999 117 70 - 130O 20 Gasoline Range Organics 1171 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 <50.0 U 1278 mg/Kg 128 70 - 1302 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 128 132 S1+ 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50981/1-A

**Matrix: Solid** 

Analysis Batch: 51039

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 04/12/23 16:05

Lab Sample ID: LCS 880-50981/2-A

**Matrix: Solid** 

**Analysis Batch: 51039** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 233.7 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-50981/3-A

**Matrix: Solid** 

**Analysis Batch: 51039** 

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 236.5 95 90 - 110 mg/Kg

Lab Sample ID: 880-27075-1 MS

Released to Imaging: 7/28/2023 3:13:42 PM

**Matrix: Solid** 

**Analysis Batch: 51039** 

Tunding City Duttonin City City										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3160		1250	4315		mg/Kg		92	90 - 110	

**Eurofins Midland** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

20

**Prep Type: Soluble** 

**Client Sample ID: S-1 (0-0.5')** 

## **QC Sample Results**

Client: Carmona Resources Job ID: 880-27075-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27075-1 MSD **Client Sample ID: S-1 (0-0.5') Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 51039

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3160		1250	4356		mg/Kg		95	90 - 110	1	20

## **QC Association Summary**

Client: Carmona Resources

Job ID: 880-27075-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

### **GC VOA**

#### Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-27075-2	S-1 (0-3")	Total/NA	Solid	5035	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	5035	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	5035	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 50945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-2	S-1 (0-3")	Total/NA	Solid	8021B	50827
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8021B	50827
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8021B	50827
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	8021B	50827
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50827
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	50827
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50827

#### **Analysis Batch: 51003**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-2	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 50830

<b>Lab Sample ID</b> 880-27075-1	S-1 (0-0.5')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Prep Batch: 50958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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## **QC Association Summary**

Client: Carmona Resources

Job ID: 880-27075-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

### GC Semi VOA (Continued)

### Prep Batch: 50958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27063-A-6-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27063-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 50959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	50830
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015B NM	50830
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50830
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50830
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015B NM	50830
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50830

#### Analysis Batch: 50962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015B NM	50958
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015B NM	50958
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015B NM	50958
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015B NM	50958
MB 880-50958/1-A	Method Blank	Total/NA	Solid	8015B NM	50958
LCS 880-50958/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50958
LCSD 880-50958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50958
880-27063-A-6-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50958
880-27063-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50958

#### Analysis Batch: 51056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-2	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-27075-3	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-4	S-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-27075-5	S-4 (0-0.5')	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 50981

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-2	S-1 (0-3")	Soluble	Solid	DI Leach	
880-27075-3	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-4	S-3 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-5	S-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-50981/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27075-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27075-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	

#### Analysis Batch: 51039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-1	S-1 (0-0.5')	Soluble	Solid	300.0	50981

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## **QC Association Summary**

Client: Carmona Resources

Job ID: 880-27075-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

## **HPLC/IC** (Continued)

### **Analysis Batch: 51039 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27075-2	S-1 (0-3")	Soluble	Solid	300.0	50981
880-27075-3	S-2 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-4	S-3 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-5	S-4 (0-0.5')	Soluble	Solid	300.0	50981
MB 880-50981/1-A	Method Blank	Soluble	Solid	300.0	50981
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	300.0	50981
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50981
880-27075-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	50981
880-27075-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	50981

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Job ID: 880-27075-1 SDG: Lea County, NM

Project/Site: Flood AFN #1

Client: Carmona Resources

Lab Sample ID: 880-27075-1

Matrix: Solid

Client Sample ID: S-1 (0-0.5')
Date Collected: 04/05/23 00:00

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:19	SMC	EET MID

Client Sample ID: S-1 (0-3")

Lab Sample ID: 880-27075-2

Date Collected: 04/05/23 00:00 Matrix: Solid

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 17:40	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:34	SMC	EET MID

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

Date Collected: 04/05/23 00:00

Lab Sample ID: 880-27075-3

Matrix: Solid

Date Received: 04/12/23 09:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/12/23 15:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 18:03	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51039	04/12/23 16:39	SMC	EET MID

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

Lab Sample ID: 880-27075-4

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 16:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/13/23 09:53	AJ	EET MID

**Eurofins Midland** 

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**Matrix: Solid** 

#### **Lab Chronicle**

Client: Carmona Resources

Job ID: 880-27075-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

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

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51 Lab Sample ID: 880-27075-4

Matrix: Solid

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 51056 Analysis 04/13/23 11:30 SM **EET MID** Total/NA Prep 8015NM Prep 10.03 g 10 mL 50958 04/12/23 10:00 AJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 50962 04/12/23 18:25 ΑJ EET MID DI Leach 5.02 g 50 mL 50981 04/12/23 10:41 KS EET MID Soluble Leach 300.0 51039 04/12/23 16:43 Soluble Analysis 1 50 mL 50 mL SMC **EET MID** 

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

Lab Sample ID: 880-27075-5

Date Collected: 04/05/23 00:00

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51003	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51056	04/13/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50958	04/12/23 10:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50962	04/12/23 18:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 16:48	SMC	EET MID

Laboratory References:

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

**Eurofins Midland** 

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## **Accreditation/Certification Summary**

Client: Carmona Resources Job ID: 880-27075-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

### **Laboratory: Eurofins Midland**

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

thority		Program	Identification Number	Expiration Date
cas		NELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	•	t, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GF	RO)-C6-C10
8015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	3-C36)
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	m-Xylene & p-Xylene	
8021B	5035	Solid	o-Xylene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Total BTEX		Solid	Total BTEX	

## **Method Summary**

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27075-1 SDG: Lea County, NM

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

## **Sample Summary**

Client: Carmona Resources Project/Site: Flood AFN #1 Job ID: 880-27075-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27075-1	S-1 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-2	S-1 (0-3")	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-3	S-2 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-4	S-3 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27075-5	S-4 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51

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Project Manager <sup>.</sup>	Conner Moehr	ing			Bill to (if	different)		Todd	Wells						٦ [	Work Order Comments							
Company Name	Carmona Reso	ources			Company	y Name		EOG	Resou	rces					7	Progra	am: U	ST/PS				nfields kRC	perfund
Address	310 W Wall St	Ste 500			Address			5509	Cham	pions D	·					State of Project:							
City, State ZIP	Midland, TX 79	9701			City, Stat	e ZIP		Midland, Tx 79706						11	Reporting Level III  ST/UST RRP Level IV								
Phone:	432-813-6823			Email		Todd Wells@eogresources.com					I	Deliverables EDD ADaPT Other											
Project Name		Flood AFN #1		Turr	Around	-		ANALYSIS RE					EOU	EST						Become	45		
Project Number		2011		Routine		Rush Code				Lui						None NO	DI Water H <sub>2</sub> O						
Project Location	Lea County, NM Due Date			24	Hrs															<b>†</b>	Cool Cool	MeOH Me	
Sampler's Name		MM		2,	24 Hours				80													HCL. HC	HNO <sub>3</sub> HN
PO#			$\sim$		+ nours		و		TPH 8015M ( GRO + DRO + MRO)													H <sub>2</sub> S0 <sub>4</sub> . H <sub>2</sub>	NaOH Na
SAMPLE RECE	IPT 🏻 🍞	R Blank	Yes No	Wet Ice	Yes No		Parameters	<u></u>	S <sub>C</sub>	8											1	H₃PO₄ HP	
Received Intact	(Yo	es No	Thermometer ID	)		le –	Ta T	BTEX 8021B	+	Chloride 300			1									NaHSO₄ NABI	s
Cooler Custody Seal	s Yes	No(N/A)	Correction Facto	or.	7.7	36	_ <u>~</u>	ĕ	S.	loric			1				İ					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSC	i
Sample Custody Sea	als Yes	No N/A	Temperature Re		3.	Ч	]	<u> </u>	5M (	ភ		1	1									Zn Acetate+Na	•
Total Containers Corrected Te			Corrected Temp	erature	上ろ	-\	]	l	89													NaOH+Ascorbi	i i
Sample Ider	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		H														Comments
S-1 (0-	0 5')	4/5/2023		Х		Grab/	1	X	X	Х											1	You	
S-2 (0	-3")	4/5/2023		х		Grab/	1	X	X	Х												9100	
S-2 (0	) 5')	4/5/2023		Х	1	Grab/	1	X	Х	Х		7				<del> </del>					1		
S-3 (0-	0 5')	4/5/2023		Х		Grab/	1	X	Х	Х							1100	1881 Dan		•	L	<u> </u>	
S-4 (0-	0 5')	4/5/2023		Х		Grab/	1	X	Х	Х										IIIIIII		iii ii	· <del></del>
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								<b>†</b>				一				Η,	880-	2707	5 Cha	NI IIIIII		# <b>##</b>	
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Comments: Emai	I to Mike Carm	ona / Mcarmo	naMcarmona	OCOUPAGE GOD	and Co	nnar Ma	a b al a a	( C == =	مام مام										<u> </u>	<u> </u>	<u> </u>		
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WVVVVV	w · 1	1000	Δ				<b>⊢</b> <u> </u>	12	J														

### **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-27075-1 SDG Number: Lea County, NM

List Source: Eurofins Midland

Login Number: 27075 List Number: 1

Creator: Rodriguez, Leticia

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

**Eurofins Midland** 

<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701

Generated 4/13/2023 12:49:02 PM

## **JOB DESCRIPTION**

Flood AFN #1 SDG NUMBER Lea County, NM

## **JOB NUMBER**

880-27076-1

**Eurofins Midland** 1211 W. Florida Ave Midland TX 79701

## **Eurofins Midland**

### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 4/13/2023 12:49:02 PM

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

Client: Carmona Resources
Project/Site: Flood AFN #1

Laboratory Job ID: 880-27076-1 SDG: Lea County, NM

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### **Definitions/Glossary**

Job ID: 880-27076-1 Client: Carmona Resources Project/Site: Flood AFN #1 SDG: Lea County, NM

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

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

**GC Semi VOA** 

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

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)

**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)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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
Project/Site: Flood AFN #1

Job ID: 880-27076-1 SDG: Lea County, NM

Job ID: 880-27076-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-27076-1

#### Receipt

The samples were received on 4/12/2023 9:51 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 3.1°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-27076-1), H-2 (0-0.5') (880-27076-2), H-3 (0-0.5') (880-27076-3), H-4 (0-0.5') (880-27076-4), H-5 (0-0.5') (880-27076-5), H-6 (0-0.5') (880-27076-6), H-7 (0-0.5') (880-27076-7) and H-8 (0-0.5') (880-27076-8).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-5 (0-0.5') (880-27076-5). 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: The surrogate recovery for the blank associated with preparation batch 880-50830 and analytical batch 880-50959 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-26926-A-86-B). 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.

#### 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: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-1

Matrix: Solid

Method: SW846 8021B - Volatile	<b>Organic Comp</b>	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/12/23 11:52	04/12/23 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				04/12/23 11:52	04/12/23 17:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/12/23 11:52	04/12/23 17:14	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/13/23 09:53	1
Method: SW846 8015 NM - Diese	d Bango Organ	ice (DBO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			50.0	WIDE	mg/Kg	=	Trepareu	04/13/23 11:28	1
	<b>\30.0</b>	O	30.0		mg/rtg			04/13/23 11.20	
Method: SW846 8015B NM - Dies	sel 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		04/12/23 10:00	04/12/23 18:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
C10-C28)	4F0.0		50.0				04/40/00 40:00	04/40/02 40:02	4
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/12/23 10:00	04/12/23 18:03	1
o-Terphenyl									

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-27076-2 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

RL

5.03

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/12/23 17:03

Dil Fac

Date Received: 04/12/23 09:51

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

329

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				04/12/23 11:52	04/12/23 17:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/12/23 11:52	04/12/23 17:35	1

Released to Imaging: 7/28/2023 3:13:42 PM

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-2

04/12/23 18:25

04/12/23 10:00

**Matrix: Solid** 

Method: TAL SOP Total BTEX - Tota	I BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/13/23 09:53	1
Method: SW846 8015 NM - Diesel R	ange Organ	ics (DRO) (G	C)						

Dil Fac Analyte Result Qualifier RL MDL Unit Prepared Analyzed D Total TPH <50.0 U 50.0 04/13/23 11:28 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed <50.0 U 50.0 04/12/23 10:00 04/12/23 18:25 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 04/12/23 10:00 Diesel Range Organics (Over <50.0 U mg/Kg 04/12/23 18:25 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/12/23 10:00 04/12/23 18:25 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 04/12/23 10:00 1-Chlorooctane 119 04/12/23 18:25

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 165 5.04 mg/Kg 04/12/23 17:08

70 - 130

105

**Client Sample ID: H-3 (0-0.5')** Lab Sample ID: 880-27076-3 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

Released to Imaging: 7/28/2023 3:13:42 PM

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	
Toluene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/12/23 11:52	04/12/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/12/23 11:52	04/12/23 17:55	1
			70 - 130				04/12/23 11:52	04/12/23 17:55	
Method: TAL SOP Total BTEX - Analyte	- Total BTEX Cald	Qualifier	70 - 130  RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	04/12/23 11:52 Prepared	04/12/23 17:55  Analyzed 04/13/23 09:53	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00401	<b>Qualifier</b> U	RL 0.00401	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00401 sel Range Organ	<b>Qualifier</b> U	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL		mg/Kg	<u> </u>	Prepared	Analyzed 04/13/23 09:53	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <0.00401 sel Range Organ Result 141	Qualifier U ics (DRO) ( Qualifier	RL 0.00401 GC) RL 49.9		mg/Kg	<u> </u>	Prepared	Analyzed 04/13/23 09:53	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Di	- Total BTEX Calc Result <- 0.00401 sel Range Organ Result 141 esel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00401 GC) RL 49.9	MDL	mg/Kg	<u> </u>	Prepared	Analyzed 04/13/23 09:53	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <- 0.00401 sel Range Organ Result 141 esel Range Orga	Qualifier U ics (DRO) (Qualifier nics (DRO) Qualifier	RL 0.00401  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 04/13/23 09:53  Analyzed 04/13/23 11:28	Dil Fac

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

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

Lab Sample ID: 880-27076-3

Date Collected: 04/05/23 00:00 Matrix: Solid
Date Received: 04/12/23 09:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/12/23 10:00	04/12/23 18:48	1
o-Terphenyl	94		70 <sub>-</sub> 130				04/12/23 10:00	04/12/23 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	205	4.99	mg/Kg			04/12/23 17:12	1

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

Date Collected: 04/05/23 00:00

Lab Sample ID: 880-27076-4

Matrix: Solid

Date Received: 04/12/23 09:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				04/12/23 11:52	04/12/23 18:16	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130				04/12/23 11:52	04/12/23 18:16	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/13/23 09:53	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/13/23 11:28	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8 8	<49.8	U	49.8		mg/Kg		04/12/23 10:00	04/12/23 19:11	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8 <49.8		49.8		mg/Kg mg/Kg		04/12/23 10:00	04/12/23 19:11 04/12/23 19:11	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U							,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/12/23 10:00	04/12/23 19:11	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<49.8 <49.8	U U	49.8 49.8		mg/Kg		04/12/23 10:00 04/12/23 10:00	04/12/23 19:11 04/12/23 19:11	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 <b>%Recovery</b>	U U	49.8 49.8 <i>Limits</i>		mg/Kg		04/12/23 10:00 04/12/23 10:00 <b>Prepared</b>	04/12/23 19:11 04/12/23 19:11 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 	U U <b>Qualifier</b>	49.8  49.8  Limits  70 - 130  70 - 130		mg/Kg		04/12/23 10:00 04/12/23 10:00 Prepared 04/12/23 10:00	04/12/23 19:11 04/12/23 19:11  Analyzed 04/12/23 19:11	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.8 <49.8  **Recovery 119 104  Chromatograp	U U <b>Qualifier</b>	49.8  49.8  Limits  70 - 130  70 - 130	MDL	mg/Kg	D	04/12/23 10:00 04/12/23 10:00 Prepared 04/12/23 10:00	04/12/23 19:11 04/12/23 19:11  Analyzed 04/12/23 19:11	Dil Fac

**Eurofins Midland** 

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Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-5

Matrix: Solid

	-	

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/12/23 11:52	04/12/23 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				04/12/23 11:52	04/12/23 18:37	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130				04/12/23 11:52	04/12/23 18:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396 U	0.00396	mg/Kg			04/13/23 09:53	1	

	Method: SW846 8015 NM - Diesel Ra	inge Organi	ics (DRO) (0	GC)					
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.9	U	49.9	mg/Kg			04/13/23 11:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:34	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/12/23 10:00	04/12/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/12/23 10:00	04/12/23 19:34	

0-Terprierryi	00	10 - 130			04/12/23 10.00	04/12/23 19.34	1
Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3	5.05	mg/Kg			04/12/23 17:22	1

Chloride 70.3 mg/Kg Client Sample ID: H-6 (0-0.5') Lab Sample ID: 880-27076-6

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/12/23 11:52	04/12/23 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/12/23 11:52	04/12/23 18:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/12/23 11:52	04/12/23 18:57	1

**Eurofins Midland** 

04/12/23 17:22

**Matrix: Solid** 

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

Lab Sample ID: 880-27076-6

**Matrix: Solid** 

Dil Fac

Analyte	Result	Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mį	g/Kg			04/13/23 09:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit RLAnalyzed Analyte D Prepared Total TPH <49.9 U 49.9 04/13/23 11:28 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 04/12/23 10:00 04/12/23 19:57 Gasoline Range Organics mg/Kg (GRO)-C6-C10 49.9 04/12/23 10:00 Diesel Range Organics (Over <49.9 U mg/Kg 04/12/23 19:57 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 04/12/23 10:00 04/12/23 19:57 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 04/12/23 10:00 1-Chlorooctane 104 04/12/23 19:57 o-Terphenyl 92 70 - 130 04/12/23 10:00 04/12/23 19:57

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 118 5.02 mg/Kg 04/12/23 17:27

**Client Sample ID: H-7 (0-0.5')** Lab Sample ID: 880-27076-7 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

Released to Imaging: 7/28/2023 3:13:42 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	
Toluene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/12/23 11:52	04/12/23 19:18	
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/12/23 11:52	04/12/23 19:18	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/12/23 11:52	04/12/23 19:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				04/12/23 11:52	04/12/23 19:18	
4.4.Diff	85		70 - 130				04/12/23 11:52	04/12/23 19:18	
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald			MDI	Unit	n			
Method: TAL SOP Total BTEX	- Total BTEX Cald								
	- Total BTEX Cald	Qualifier	RL 0.00402	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/13/23 09:53	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00402	<b>Qualifier</b> U	RL 0.00402	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00402 esel Range Organ	<b>Qualifier</b> U	RL 0.00402			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00402 esel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 04/13/23 09:53	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402  GC)  RL 50.0		mg/Kg		Prepared	Analyzed 04/13/23 09:53 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402  GC)  RL 50.0		mg/Kg  Unit mg/Kg		Prepared	Analyzed 04/13/23 09:53 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 <0.00402 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/13/23 09:53  Analyzed 04/13/23 11:28	Dil Fa
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 <0.00402 esel Range Organ Result <50.0 diesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	RL 0.00402  GC)  RL 50.0  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared  Prepared	Analyzed 04/13/23 09:53  Analyzed 04/13/23 11:28  Analyzed	Dil Fa

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-27076-7 Date Collected: 04/05/23 00:00

Matrix: Solid

Date Received: 04/12/23 09:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/12/23 10:00	04/12/23 20:21	1
o-Terphenyl	81		70 - 130				04/12/23 10:00	04/12/23 20:21	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	!						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		4.98		mg/Kg			04/12/23 17:42	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-27076-8 Date Collected: 04/05/23 00:00 Matrix: Solid

Date Received: 04/12/23 09:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	
Toluene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/12/23 11:52	04/12/23 19:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/12/23 11:52	04/12/23 19:38	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/12/23 11:52	04/12/23 19:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/12/23 11:52	04/12/23 19:38	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/13/23 09:53	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/13/23 11:28	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:45	1
	<50.0	U	50.0		mg/Kg		04/12/23 10:00	04/12/23 20:45	1
Oll Range Organics (Over C28-C36)	<b>\</b> 30.0								
,	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate		Qualifier	Limits 70 - 130				Prepared 04/12/23 10:00	Analyzed 04/12/23 20:45	
Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	%Recovery	Qualifier							
Surrogate 1-Chlorooctane	%Recovery 97 80	<u> </u>	70 - 130 70 - 130				04/12/23 10:00	04/12/23 20:45	1
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 97 80 Chromatograp	<u> </u>	70 - 130 70 - 130	MDL	Unit	D	04/12/23 10:00	04/12/23 20:45	Dil Fac

## **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

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)	
880-26797-A-1-E MS	Matrix Spike	111	105	
880-26797-A-1-F MSD	Matrix Spike Duplicate	109	104	
880-27076-1	H-1 (0-0.5')	87	96	
880-27076-2	H-2 (0-0.5')	89	99	
880-27076-3	H-3 (0-0.5')	85	72	
880-27076-4	H-4 (0-0.5')	73	54 S1-	
880-27076-5	H-5 (0-0.5')	84	63 S1-	
880-27076-6	H-6 (0-0.5')	107	83	
880-27076-7	H-7 (0-0.5')	106	85	
880-27076-8	H-8 (0-0.5')	108	108	
LCS 880-50827/1-A	Lab Control Sample	107	106	
LCSD 880-50827/2-A	Lab Control Sample Dup	106	109	
MB 880-50827/5-A	Method Blank	79	96	

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)	
880-26926-A-86-C MS	Matrix Spike	100	77	
880-26926-A-86-D MSD	Matrix Spike Duplicate	93	71	
880-27076-1	H-1 (0-0.5')	103	94	
880-27076-2	H-2 (0-0.5')	119	105	
880-27076-3	H-3 (0-0.5')	104	94	
880-27076-4	H-4 (0-0.5')	119	104	
880-27076-5	H-5 (0-0.5')	101	88	
880-27076-6	H-6 (0-0.5')	104	92	
880-27076-7	H-7 (0-0.5')	97	81	
880-27076-8	H-8 (0-0.5')	97	80	
LCS 880-50830/2-A	Lab Control Sample	112	97	
LCSD 880-50830/3-A	Lab Control Sample Dup	93	81	
MB 880-50830/1-A	Method Blank	135 S1+	123	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### **QC Sample Results**

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50827/5-A

**Matrix: Solid** Analysis Batch: 50945 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50827

	MID	IVID
Analyte	Result	Qualifie
Ponzono	<0.00200	П

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 11:52	04/12/23 10:50	1

мв мв

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	70 - 130	04/10/23 11:52	04/12/23 10:50	1
1,4-Difluorobenzene (Surr)	96	70 - 130	04/10/23 11:52	04/12/23 10:50	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-50827/1-A

Matrix: Solid

Analysis Batch: 50945

Prep Type: Total/NA

Prep Batch: 50827

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1032	-	mg/Kg		103	70 - 130	
Toluene	0.100	0.09878		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1150		mg/Kg		115	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-50827/2-A

Matrix: Solid

Analysis Batch: 50945

Prep Type: Total/NA

Prep Batch: 50827

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	7	35
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26797-A-1-E MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0996	0.1070	mg/K		107	70 - 130	
Toluene	< 0.00198	U	0.0996	0.1020	mg/K	a	102	70 - 130	

### QC Sample Results

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Lab Sample ID: 880-26797-A-1-E MS

**Matrix: Solid** Analysis Batch: 50945

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.0996	0.1029		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2210		mg/Kg		111	70 - 130	
o-Xylene	<0.00198	U	0.0996	0.1134		mg/Kg		114	70 - 130	

70 - 130

MS MS %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 111

105

Lab Sample ID: 880-26797-A-1-F MSD

**Matrix: Solid** Analysis Batch: 50945

1,4-Difluorobenzene (Surr)

Surrogate

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50827

Prep Type: Total/NA Prep Batch: 50827

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Limits Unit Benzene <0.00198 U 0.0994 0.1012 mg/Kg 102 70 - 130 6 35 0.09706 Toluene <0.00198 U 0.0994 mg/Kg 98 70 - 130 5 35 Ethylbenzene <0.00198 U 0.0994 0.09702 98 70 - 130 6 35 mg/Kg 0.199 35 m-Xylene & p-Xylene <0.00396 U 0.2091 mg/Kg 105 70 - 130 6 <0.00198 U 0.0994 0.1073 70 - 130 o-Xylene mg/Kg 108 5

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 104 70 - 130

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

Lab Sample ID: MB 880-50830/1-A

**Matrix: Solid** 

Analysis Batch: 50959

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Prep Batch: 50830	

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
5 5	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
,	<50.0	U	50.0		mg/Kg		04/11/23 12:59	04/12/23 09:02	1
	Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Analyte         Result         Qualifier         RL           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Gasoline Range Organics         <50.0

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/11/23 12:59	04/12/23 09:02	1
o-Terphenyl	123		70 - 130	04/11/23 12:59	04/12/23 09:02	1

Lab Sample ID: LCS 880-50830/2-A **Client Sample ID: Lab Control Sample** 

Analysis Patch: 50050

**Matrix: Solid** 

Analysis Batch: 50959							Prep	Batch: 50830
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	965.8		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1056		mg/Kg		106	70 - 130	
C10-C28)								

**Eurofins Midland** 

Prep Type: Total/NA

Limits

70 - 130

70 - 130

Job ID: 880-27076-1

SDG: Lea County, NM

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

Lab Sample ID: LCS 880-50830/2-A

**Matrix: Solid** 

Surrogate

o-Terphenyl

1-Chlorooctane

**Analysis Batch: 50959** 

Client: Carmona Resources

Project/Site: Flood AFN #1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 50830

_		
Lab Sample	ID: LCSD	880-50830/3-A

Lab Sample ID: 880-26926-A-86-C MS

Lab Sample ID: 880-26926-A-86-D MSD

**Matrix: Solid** 

Analysis Batch: 50959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50830

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1107		mg/Kg		111	70 - 130	14	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	866.1		mg/Kg		87	70 - 130	20	20
C10-C28)									

LCSD LCSD

LCS LCS %Recovery Qualifier

112

97

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50830

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	922.3		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	962.6		mg/Kg		97	70 - 130	

**Matrix: Solid** 

Analysis Batch: 50959

**Matrix: Solid** 

**Analysis Batch: 50959** 

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	77		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50830

	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	<49.9	U	996	878.3		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	875.3		mg/Kg		88	70 - 130	10	20

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	93	70 - 130
o-Terphenyl	71	70 - 130

**Eurofins Midland** 

Released to Imaging: 7/28/2023 3:13:42 PM

## QC Sample Results

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50981/1-A

**Matrix: Solid** 

Analyte

Chloride

Analysis Batch: 51039

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

мв мв MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <5.00 U 5.00 mg/Kg 04/12/23 16:05

Lab Sample ID: LCS 880-50981/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 51039** 

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 233.7 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-50981/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51039

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 236.5 90 - 110 mg/Kg

Lab Sample ID: 880-27076-6 MS Client Sample ID: H-6 (0-0.5') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 51039

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 118 251 355.1 90 - 110 mg/Kg

Lab Sample ID: 880-27076-6 MSD Client Sample ID: H-6 (0-0.5') **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51039

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 251 118 355.7 mg/Kg 95 90 - 110 20

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

**GC VOA** 

Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	5035	_
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

**Analysis Batch: 50945** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8021B	50827
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8021B	50827
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
LCS 880-50827/1-A	Lab Control Sample	Total/NA	Solid	8021B	50827
LCSD 880-50827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50827
880-26797-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	50827
880-26797-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50827

Analysis Batch: 51026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Prep Batch: 50830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	

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Job ID: 880-27076-1 Client: Carmona Resources Project/Site: Flood AFN #1 SDG: Lea County, NM

# GC Semi VOA (Continued)

## Prep Batch: 50830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 50959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	50830
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	50830
MB 880-50830/1-A	Method Blank	Total/NA	Solid	8015B NM	50830
LCS 880-50830/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50830
LCSD 880-50830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50830
880-26926-A-86-C MS	Matrix Spike	Total/NA	Solid	8015B NM	50830
880-26926-A-86-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50830

#### Analysis Batch: 51055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-27076-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

## Leach Batch: 50981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-27076-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-50981/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27076-6 MS	H-6 (0-0.5')	Soluble	Solid	DI Leach	

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

# **HPLC/IC** (Continued)

## Leach Batch: 50981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-6 MSD	H-6 (0-0.5')	Soluble	Solid	DI Leach	

#### Analysis Batch: 51039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27076-1	H-1 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-2	H-2 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-3	H-3 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-4	H-4 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-5	H-5 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-6	H-6 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-7	H-7 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-8	H-8 (0-0.5')	Soluble	Solid	300.0	50981
MB 880-50981/1-A	Method Blank	Soluble	Solid	300.0	50981
LCS 880-50981/2-A	Lab Control Sample	Soluble	Solid	300.0	50981
LCSD 880-50981/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50981
880-27076-6 MS	H-6 (0-0.5')	Soluble	Solid	300.0	50981
880-27076-6 MSD	H-6 (0-0.5')	Soluble	Solid	300.0	50981

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Date Received: 04/12/23 09:51

Job ID: 880-27076-1 Client: Carmona Resources Project/Site: Flood AFN #1 SDG: Lea County, NM

**Client Sample ID: H-1 (0-0.5')** Lab Sample ID: 880-27076-1 Date Collected: 04/05/23 00:00

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 50827 Total/NA Prep 5.04 g 5 mL 04/12/23 11:52 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 50945 04/12/23 17:14 MNR **EET MID** Total/NA Analysis Total BTEX 51026 04/13/23 09:53 AJ **EET MID** Total/NA 8015 NM 51055 04/13/23 11:28 **EET MID** Analysis 1 SM Total/NA 8015NM Prep 50830 04/12/23 10:00 EET MID Prep 10.01 g 10 mL SM Total/NA Analysis 8015B NM 1 uL 1 uL 50959 04/12/23 18:03 SM **EET MID** Soluble DI Leach 4.97 g 50 mL 50981 04/12/23 10:41 KS EET MID Leach Soluble Analysis 300.0 50 mL 50 mL 51039 04/12/23 17:03 SMC **EET MID** 

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-27076-2

Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 18:25	SM	EET MIC
Soluble	Leach	DI Leach			4.96 g	50 mL	50981	04/12/23 10:41	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:08	SMC	EET MID

Client Sample ID: H-3 (0-0.5') Lab Sample ID: 880-27076-3 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:12	SMC	EET MID

Lab Sample ID: 880-27076-4 Client Sample ID: H-4 (0-0.5') Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID

Client: Carmona Resources Job ID: 880-27076-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

**Client Sample ID: H-4 (0-0.5')** Date Collected: 04/05/23 00:00

Lab Sample ID: 880-27076-4

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			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:17	SMC	EET MID

Lab Sample ID: 880-27076-5 **Client Sample ID: H-5 (0-0.5')** 

Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:22	SMC	EET MID

**Client Sample ID: H-6 (0-0.5')** Lab Sample ID: 880-27076-6 Date Collected: 04/05/23 00:00 **Matrix: Solid** 

Date Received: 04/12/23 09:51

	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	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 19:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:27	SMC	EET MID

Lab Sample ID: 880-27076-7 **Client Sample ID: H-7 (0-0.5')** 

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	50830 50959	04/12/23 10:00 04/12/23 20:21	SM SM	EET MID EET MID

**Eurofins Midland** 

**Matrix: Solid** 

## **Lab Chronicle**

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')

Date Collected: 04/05/23 00:00 Date Received: 04/12/23 09:51 Lab Sample ID: 880-27076-7

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			5.02 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:42	SMC	EET MID

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-27076-8

Date Collected: 04/05/23 00:00 Matrix: Solid

Date Received: 04/12/23 09:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	50827	04/12/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51026	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51055	04/13/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50830	04/12/23 10:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50959	04/12/23 20:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50981	04/12/23 10:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51039	04/12/23 17:47	SMC	EET MID

**Laboratory References:** 

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

Eurofins Midland

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# **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-27076-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

## **Laboratory: Eurofins Midland**

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

thority		Program	Identification Number	Expiration Date
cas		NELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	•	t, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GF	RO)-C6-C10
8015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	3-C36)
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	m-Xylene & p-Xylene	
8021B	5035	Solid	o-Xylene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Total BTEX		Solid	Total BTEX	

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# **Method Summary**

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27076-1 SDG: Lea County, NM

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

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#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Carmona Resources Project/Site: Flood AFN #1 Job ID: 880-27076-1 SDG: Lea County, NM

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27076-1	H-1 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-2	H-2 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-3	H-3 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-4	H-4 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-5	H-5 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-6	H-6 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-7	H-7 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51
880-27076-8	H-8 (0-0.5')	Solid	04/05/23 00:00	04/12/23 09:51

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Date/Time

Relinquished by (Signature)





Work Order No: 2767 6

Project Manager	Conn	ner Moehrin	α			I										$\neg$							Pa	<u> </u>	of1
	<del> </del>		×			Bill to: (if different) Todd Wells								Work Order Comments											
Company Name	i	nona Resou				Company	/ Name		EOG	Resou	rces						Program: UST/PST ☐PRP ☐rownfields ☐tRC ☐perfund ☐								
Address	310 W Wall St Ste 500				Address		·	5509	Cham	pions D	r						of Pro	•							
City, State ZIP	Midla	ind, TX 797	01			City, Stat	e ZIP		Midlar	nd Tx	79706						Repo	rting L	evel II	☐Le\	el III	ST	/UST	RRP	Level IV
Phone:	432-8	813-6823			Email	Todd V	/ells@ec	gresour	ces.co	m							Deliv	erables	EDI			ADaP	т 🗆	Other	
Project Name		F	lood AFN #1	1	Turn	Around								ANAL	YSIS	REQ	JEST		***************************************				Р	racanya	tive Codes
Project Number			2011		Routine	√ Rush	)	Pres. Code							T	T		T		T	T	T	None I		DI Water H <sub>2</sub> O
Project Location		Le	a County, N	M	Due Date	24	Hrs										1						Cool C		MeOH Me
Sampler's Name			MM		24	Hours				MRO)													HCL. F		HNO <sub>3</sub> HN
PO#:		·			24	nouis		go .		+						1	İ						H <sub>2</sub> S0 <sub>4</sub> .	-	NaOH Na
SAMPLE RECEI	PT	Tem	Blank	Yes (lo	Wet Ice	(Yes)	No	Parameters	<u>a</u>	+ DRO	300					1							H <sub>3</sub> PO <sub>4</sub>	-	110011110
Received Intact		(Yes	No_	Thermometer ID		-	28	ran	BTEX 8021B	1+0						1							1 .	·" D₄ NABIS	
Cooler Custody Seals		Yes I		Correction Facto	r-	-3	D	g.	Ä	8	Chloride	İ					i				1			D <sub>3</sub> NaSO	
Sample Custody Sea	ls	Yes I	No (N/A)	Temperature Re	ading	3.0	{		6	5M (	٥					1	ľ				l			tate+Na(	•
Total Containers.				Corrected Tempor	erature	3,				TPH 8015M ( GRO	İ					1	!						NaOH-	+Ascorbic	Acid SAPC
Sample Iden	tificat	ion	Date	Time	Soil	Water	Grab/ Comp	# of Cont		Ŧ													s	ample (	Comments
H-1 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х					<del>                                     </del>		1		1	T	T	ΙU	07	
H-2 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х							El 18181 11	111 <b>2 2</b> 2			·L	1	<u> </u>	
H-3 (0-	0 5')		4/5/2023		X		Grab/	1	Х	Х	Х					- 1						111111111111	(() <b>(1)</b>	_	
H-4 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х				1	- 1								-	
H-5 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х					- 11								_	······································
H-6 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х				T	- 88	30-27	76 C	hain c	of Cus	1111 [[]]] tody		<b>     </b>	_	
H-7 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х				1	1	1	1	1		tody			<del></del>	
H-8 (0-	0 5')		4/5/2023		Х		Grab/	1	Х	Х	Х					†				<b>†</b>		1	T		
																1		<b>†</b>		1	1	<del>                                     </del>	1		
																1		T		1	l	1	1	<del></del>	
Comments: Email	to Mi	ike Carmoi	na / Mcarmo	na@carmonar	esources.com	and Co	nner Mo	ehring /	Cmo	ehrin	g@cai	monar	esou	rces.	com								1		

Date/Time

4-12-23

Received by (Signature)

# **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-27076-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

Login Number: 27076 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	
s 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	

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701

Generated 4/25/2023 9:58:14 AM

# **JOB DESCRIPTION**

Flood AFN #1 SDG NUMBER Lea County, NM

# **JOB NUMBER**

880-27467-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 4/25/2023 9:58:14 AM

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

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Client: Carmona Resources Project/Site: Flood AFN #1 Laboratory Job ID: 880-27467-1 SDG: Lea County, NM

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# **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

#### **Qualifiers**

**GC VOA** 

Qualifier	Qualifier Description
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.

#### **GC Semi VOA**

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HDI C/IC

NEG

POS

**PQL PRES** 

QC

RER

RL RPD

TEF

**TEQ** 

TNTC

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

Glossary	
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)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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)

**Eurofins Midland** 

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Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

#### **Case Narrative**

Client: Carmona Resources
Project/Site: Flood AFN #1

Job ID: 880-27467-1 SDG: Lea County, NM

Job ID: 880-27467-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-27467-1

#### Receipt

The samples were received on 4/21/2023 10:20 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  $0.9^{\circ}$ C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (8.5') (880-27467-1), CS-2 (8.5') (880-27467-2), CS-3 (8.5') (880-27467-3), CS-4 (8.5') (880-27467-4), CS-5 (8.5') (880-27467-5), SW-1 (8.5') (880-27467-6), SW-2 (8.5') (880-27467-7), SW-3 (8.5') (880-27467-8), SW-4 (8.5') (880-27467-9), SW-5 (8.5') (880-27467-10), SW-6 (8.5') (880-27467-11), SW-7 (8.5') (880-27467-12) and H-3 (0-0.5) (880-27467-13).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-27436-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-1 (8.5') (880-27467-1). 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: CS-4 (8.5') (880-27467-4), SW-1 (8.5') (880-27467-6) and SW-2 (8.5') (880-27467-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: H-3 (0-0.5) (880-27467-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-51720 and analytical batch 880-51776 contained Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Total TPH above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

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 for preparation batch 880-51743 and 880-51743 and analytical batch 880-51838 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-1 (8.5') (880-27467-1), CS-2 (8.5') (880-27467-2), CS-3 (8.5') (880-27467-3), CS-4 (8.5') (880-27467-4), CS-5 (8.5') (880-27467-5), SW-1 (8.5') (880-27467-6), SW-2 (8.5') (880-27467-7), SW-3 (8.5') (880-27467-8), SW-4 (8.5') (880-27467-9), SW-5 (8.5') (880-27467-10), (880-27467-A-1-I MS) and (880-27467-A-1-J MSD).

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: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: CS-1 (8.5')

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20 Lab Sample ID: 880-27467-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Toluene	0.00943		0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130				04/21/23 10:30	04/21/23 12:01	1
								04/04/00 40 04	
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX			70 - 130				04/21/23 10:30	04/21/23 12:01	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	RL	MDL	Unit	<u>D</u>	04/21/23 10:30 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result 0.00943	Qualifier	RL 0.00398	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result 0.00943 esel Range Organ	Qualifier	RL 0.00398			<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result 0.00943 esel Range Organ	Qualifier ics (DRO) (	RL 0.00398		mg/Kg		Prepared	Analyzed 04/21/23 15:12	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result 0.00943 esel Range Organ Result 74.0	Qualifier ics (DRO) ( Qualifier	RL 0.00398  GC) RL 50.0		mg/Kg		Prepared	Analyzed 04/21/23 15:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result 0.00943 esel Range Organ Result 74.0 diesel Range Orga	Qualifier ics (DRO) ( Qualifier	RL 0.00398  GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 04/21/23 15:12 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 0.00943 esel Range Organ Result 74.0 diesel Range Orga	Qualifier  ics (DRO) ( Qualifier  nics (DRO) Qualifier	RL 0.00398  GC) RL 50.0  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/21/23 15:12  Analyzed 04/24/23 11:55	Dil Fac  Dil Fac  1

	C10-C28)	74.0	50.0	mg/Kg	04/21/23 14:02	04/22/23 21:23	1
	Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	04/21/23 14:02	04/22/23 21:23	1
ı							
	Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
	Surrogate 1-Chlorooctane	%Recovery Qualifier	Limits 70 - 130		<b>Prepared</b> 04/21/23 14:02	Analyzed 04/22/23 21:23	Dil Fac

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300	F1	4.99		mg/Kg			04/22/23 17:52	1

Client Sample ID: CS-2 (8.5') Lab Sample ID: 880-27467-2 Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				04/21/23 10:30	04/21/23 12:22	1
1,4-Difluorobenzene (Surr)	75		70 - 130				04/21/23 10:30	04/21/23 12:22	1

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: CS-2 (8.5')

Lab Sample ID: 880-27467-2

Date Collected: 04/20/23 00:00 Matrix: Solid Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/21/23 15:12	1
Method: SW846 8015 NM - Diese	l 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			04/24/23 11:55	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:27	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/21/23 14:02	04/22/23 22:27	1
o-Terphenyl	114		70 - 130				04/21/23 14:02	04/22/23 22:27	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		5.01		mg/Kg			04/22/23 18:07	

Client Sample ID: CS-3 (8.5') Lab Sample ID: 880-27467-3 Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

Released to Imaging: 7/28/2023 3:13:42 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/21/23 10:30	04/21/23 12:42	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -			70 - 130				04/21/23 10:30	04/21/23 12:42	
- '	Total BTEX Cald	Qualifier	70 - 130  RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	04/21/23 10:30 Prepared	Analyzed  04/21/23 12:42	
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc Result <0.00398	<b>Qualifier</b> U	RL 0.00398	MDL		<u>D</u>		Analyzed	·
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result < 0.00398 sel Range Organ	<b>Qualifier</b> U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result < 0.00398 sel Range Organ	Qualifier U	RL 0.00398		mg/Kg	=	Prepared	Analyzed 04/21/23 15:12	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result <0.00398 sel Range Organ Result 50.8	Qualifier U ics (DRO) ( Qualifier	RL 0.00398  GC)  RL 50.0		mg/Kg	=	Prepared	Analyzed 04/21/23 15:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die	Total BTEX Calc Result <0.00398 sel Range Organ Result 50.8 esel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00398  GC)  RL 50.0		mg/Kg  Unit mg/Kg	=	Prepared	Analyzed 04/21/23 15:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Total BTEX Calc Result <0.00398 sel Range Organ Result 50.8 esel Range Orga	Qualifier U ics (DRO) (Qualifier nics (DRO) Qualifier	RL 0.00398  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 04/21/23 15:12  Analyzed 04/24/23 11:55	Dil Fac

Job ID: 880-27467-1

SDG: Lea County, NM

Client Sample ID: CS-3 (8.5')

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client: Carmona Resources

Project/Site: Flood AFN #1

Lab Sample ID: 880-27467-3

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		04/21/23 14:02	04/22/23 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/21/23 14:02	04/22/23 22:48	1
o-Terphenyl	107		70 - 130				04/21/23 14:02	04/22/23 22:48	1

Method: EPA 300.0 - Anions, Ion Ch	nromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394	4.96	mg/Kg			04/22/23 18:12	1

Client Sample ID: CS-4 (8.5')

Date Collected: 04/20/23 00:00

Date Received: 04/21/23 10:20

Lab Sample ID: 880-27467-4

**Matrix: Solid** 

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				04/21/23 10:30	04/21/23 13:03	1
1.4-Difluorobenzene (Surr)	102		70 - 130				04/21/23 10:30	04/21/23 13:03	1

<u> </u>			<del>-</del>	-	
4-Bromofluorobenzene (Surr)	125	70 - 130	04/21/23 10:30	04/21/23 13:03	1
1,4-Difluorobenzene (Surr)	102	70 - 130	04/21/23 10:30	04/21/23 13:03	1
Method: TAL SOP Total BTEX - Tot	al BTEX Calculation	1			

Mictiloa. IAL COI	Total BTEX - Total BTEX Galcalation
Analyte	Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	[	)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg				04/21/23 15:12	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.4	49.8	mg/Kg			04/24/23 11:55	1

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

Method. 344040 0013B NW - Diese	i Kaliye Olya	(טאט) פטוווו	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/22/23 23:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	74.4		49.8		mg/Kg		04/21/23 14:02	04/22/23 23:09	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/22/23 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	04/21/23 14:02	04/22/23 23:09	1
o-Terphenyl	123		70 - 130	04/21/23 14:02	04/22/23 23:09	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		5.03		mg/Kg			04/22/23 18:17	1

RL

0.00199

0.00199

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/21/23 10:30

04/21/23 10:30

04/21/23 10:30

04/21/23 10:30

04/21/23 10:30

04/21/23 10:30

Prepared

04/21/23 10:30

04/21/23 10:30

mg/Kg

mg/Kg

Job ID: 880-27467-1 SDG: Lea County, NM

D

Prepared

04/21/23 10:30

04/21/23 10:30

Client Sample ID: CS-5 (8.5')

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

Result Qualifier

<0.00199

<0.00199 U

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client: Carmona Resources

Project/Site: Flood AFN #1

Benzene

Toluene

Lab Sample ID: 880-27467-5

Analyzed

04/21/23 13:24

04/21/23 13:24

**Matrix: Solid** 

Dil Fac

<b>-</b>

Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Ior	• •	U U <b>Qualifier</b>	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared 04/21/23 14:02 04/21/23 14:02 Prepared	Analyzed  04/22/23 23:30  04/22/23 23:30  04/22/23 23:30  Analyzed  04/22/23 23:30  Analyzed	1 1 1 <b>Dil Fac</b>
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	72.7 <49.9 	U U <b>Qualifier</b>	49.9 49.9 49.9  Limits 70 - 130 70 - 130	MDL	mg/Kg	<u>D</u>	04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared 04/21/23 14:02	04/22/23 23:30 04/22/23 23:30 04/22/23 23:30 <b>Analyzed</b> 04/22/23 23:30	1 1 1 <b>Dil Fac</b>
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	72.7 <49.9 <u>%Recovery</u> 109	U	49.9 49.9 49.9 <b>Limits</b> 70 - 130	MDL	mg/Kg	<u>D</u>	04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared 04/21/23 14:02	04/22/23 23:30 04/22/23 23:30 04/22/23 23:30 <b>Analyzed</b> 04/22/23 23:30	1 1 1 <b>Dil Fac</b>
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate	72.7 <49.9 <u>%Recovery</u> 109	U	49.9 49.9 49.9 <b>Limits</b>	MDL	mg/Kg	<u>D</u>	04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared 04/21/23 14:02	04/22/23 23:30 04/22/23 23:30 04/22/23 23:30 Analyzed	1
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate	72.7 <49.9 <i>%Recovery</i>	U	49.9 49.9 49.9 <b>Limits</b>	MDL	mg/Kg	<u>D</u>	04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared	04/22/23 23:30 04/22/23 23:30 04/22/23 23:30 Analyzed	1 1 1 <b>Dil Fac</b>
(GRO)-C6-C10  Diesel Range Organics (Over C10-C28)	72.7	U	49.9	MDL	mg/Kg	<u>D</u>	04/21/23 14:02	04/22/23 23:30	1
(GRO)-C6-C10 Diesel Range Organics (Over			49.9	MDL	mg/Kg	<u>D</u>	04/21/23 14:02	04/22/23 23:30	Dil Fac
0 0	<49.9			MDL		<u>D</u>	<u>.</u>		
- · · · · ·				MDL		D	<u>.</u>		
Analyte	Result	Qualifier							
Method: SW846 8015B NM - Die	sel Range Orga							04/24/25 11.55	,
Total TPH	72.7	Qualifier	49.9	MIDL	mg/Kg		Frepareu	Analyzed 04/24/23 11:55	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (	GC)	MDI	Unit	D	Prepared	Amalumad	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/21/23 15:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
1,4-Difluorobenzene (Surr)	105		70 - 130				04/21/23 10:30	04/21/23 13:24	1
4-Bromofluorobenzene (Surr)	123		70 - 130				04/21/23 10:30	04/21/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
	-0.00000	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 13:24	1
m-Xylene & p-Xylene	< 0.00398		0.0000						
	<0.00199		0.00199		mg/Kg		04/21/23 10:30	04/21/23 13:24	1

**Eurofins Midland** 

**Matrix: Solid** 

Analyzed

04/21/23 13:45

04/21/23 13:45

04/21/23 13:45

04/21/23 13:45

04/21/23 13:45

04/21/23 13:45

Analyzed

04/21/23 13:45

04/21/23 13:45

Dil Fac

Dil Fac

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

Date Collected: 04/20/23 00:00

Date Received: 04/21/23 10:20

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

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

Result Qualifier

U

Qualifier

<0.00199

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

123

108

%Recovery

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: SW-1 (8.5') Lab Sample ID: 880-27467-6 Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/21/23 10:20

						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/21/23 15:12	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.5		50.0		mg/Kg			04/24/23 11:55	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 23:51	1
(GRO)-C6-C10									
Diesel Range Organics (Over	81.5		50.0		mg/Kg		04/21/23 14:02	04/22/23 23:51	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				04/21/23 14:02	04/22/23 23:51	1
o-Terphenyl	125		70 - 130				04/21/23 14:02	04/22/23 23:51	1
- Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		5.02		mg/Kg			04/22/23 18:36	

Client Sample ID: SW-2 (8.5') Lab Sample ID: 880-27467-7 Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

Released to Imaging: 7/28/2023 3:13:42 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/21/23 10:30	04/21/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/21/23 10:30	04/21/23 14:05	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -			70 - 130				04/21/23 10:30	04/21/23 14:05	
Method: TAL SOP Total BTEX - Analyte	Total BTEX Cald	Qualifier	70 - 130  RL 0.00403	MDL	Unit mg/Kg	<u>D</u>	04/21/23 10:30 Prepared	04/21/23 14:05  Analyzed  04/21/23 15:12	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc Result <0.00403	<b>Qualifier</b> U	RL 0.00403	MDL		<u>D</u>		Analyzed	·
- ' '	Total BTEX Calc Result < 0.00403 sel Range Organ	<b>Qualifier</b> U	RL 0.00403			<u>D</u>		Analyzed	·
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result < 0.00403 sel Range Organ	Qualifier U	RL 0.00403		mg/Kg	=	Prepared	Analyzed 04/21/23 15:12	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result <0.00403  sel Range Organ Result 69.3	Qualifier U ics (DRO) ( Qualifier	RL 0.00403 ——————————————————————————————————		mg/Kg	=	Prepared	Analyzed 04/21/23 15:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die	Total BTEX Calc Result <0.00403 sel Range Organ Result 69.3 sesel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00403 ——————————————————————————————————		mg/Kg  Unit mg/Kg	=	Prepared	Analyzed 04/21/23 15:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Total BTEX Calc Result <0.00403 sel Range Organ Result 69.3 sesel Range Orga	Qualifier U ics (DRO) (Qualifier unics (DRO) Qualifier	RL 0.00403  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 04/21/23 15:12  Analyzed 04/24/23 11:55	Dil Fac

Job ID: 880-27467-1 SDG: Lea County, NM

Client: Carmona Resources Project/Site: Flood AFN #1

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client Sample ID: SW-2 (8.5')

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				04/21/23 14:02	04/23/23 00:12	1
o-Terphenyl	127		70 - 130				04/21/23 14:02	04/23/23 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 345 4.97 04/22/23 18:41 Chloride mg/Kg

Client Sample ID: SW-3 (8.5') Lab Sample ID: 880-27467-8 Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

Method: SW846 8021B - Volat	lie Organic Comp	ounas (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				04/21/23 10:30	04/21/23 14:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/21/23 10:30	04/21/23 14:26	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			04/21/23 15:12	1

Method: SW846 8015 NM - Diesel Rang	e Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		49.8		mg/Kg			04/24/23 11:55	1

<del>-</del>									
	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 00:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	67.7		49.8		mg/Kg		04/21/23 14:02	04/23/23 00:33	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/21/23 14:02	04/23/23 00:33	1
o-Terphenyl	106		70 - 130				04/21/23 14:02	04/23/23 00:33	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.98		mg/Kg			04/22/23 18:46	1

**Eurofins Midland** 

4/25/2023

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: SW-4 (8.5')

Lab Sample ID: 880-27467-9 Date Collected: 04/20/23 00:00 Matrix: Solid

Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/23 10:30	04/21/23 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/21/23 10:30	04/21/23 15:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/21/23 10:30	04/21/23 15:49	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/24/23 13:40	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	ics (DRO) (	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte	•	, , ,	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/24/23 11:55	
Analyte Total TPH	Result 64.0	Qualifier	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result 64.0 sel Range Orga	Qualifier	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 64.0 sel Range Orga	Qualifier  nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			04/24/23 11:55	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 64.0 sel Range Orga Result	Qualifier  nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		Prepared	04/24/23 11:55  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 64.0  sel Range Orga Result <a href="mailto:color: red;">Result</a> <a href="mailto:color: red;">c49.9</a>	Qualifier  nics (DRO)  Qualifier  U	RL 49.9  (GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 04/21/23 14:02	04/24/23 11:55  Analyzed 04/23/23 00:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 64.0  Sel Range Orga Result <49.9  64.0	Qualifier  nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/21/23 14:02 04/21/23 14:02	04/24/23 11:55  Analyzed 04/23/23 00:53 04/23/23 00:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result 64.0  Sel Range Orga Result <49.9  64.0  <49.9	Qualifier  nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/21/23 14:02 04/21/23 14:02 04/21/23 14:02	04/24/23 11:55  Analyzed 04/23/23 00:53 04/23/23 00:53	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier  nics (DRO) Qualifier U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/21/23 14:02 04/21/23 14:02 04/21/23 14:02 Prepared	04/24/23 11:55  Analyzed 04/23/23 00:53 04/23/23 00:53 04/23/23 00:53 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  Method: EPA 300.0 - Anions, Ion	Result	Qualifier  nics (DRO) Qualifier  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/21/23 14:02 04/21/23 14:02 04/21/23 14:02  Prepared 04/21/23 14:02	04/24/23 11:55  Analyzed 04/23/23 00:53 04/23/23 00:53  Analyzed 04/23/23 00:53	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Diesen 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  nics (DRO) Qualifier  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 04/21/23 14:02 04/21/23 14:02 04/21/23 14:02  Prepared 04/21/23 14:02	04/24/23 11:55  Analyzed 04/23/23 00:53 04/23/23 00:53  Analyzed 04/23/23 00:53	Dil Fac

Client Sample ID: SW-5 (8.5') Lab Sample ID: 880-27467-10 Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 10:30	04/21/23 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/21/23 10:30	04/21/23 16:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/21/23 10:30	04/21/23 16:10	1

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Client Sample ID: SW-5 (8.5')

Lab Sample ID: 880-27467-10

Date Collected: 04/20/23 00:00 Matrix: Solid Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/24/23 13:40	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.7		49.9		mg/Kg			04/24/23 11:55	1
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies			•			_			
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 01:14	1
(GRO)-C6-C10									
Diesel Range Organics (Over	57.7		49.9		mg/Kg		04/21/23 14:02	04/23/23 01:14	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 14:02	04/23/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/21/23 14:02	04/23/23 01:14	1
o-Terphenyl	109		70 - 130				04/21/23 14:02	04/23/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Dil Fac RL MDL Unit D Prepared Analyzed 360 4.99 04/22/23 18:55 Chloride mg/Kg Lab Sample ID: 880-27467-11

Client Sample ID: SW-6 (8.5') Date Collected: 04/20/23 00:00

**Matrix: Solid** Date Received: 04/21/23 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/23 10:30	04/21/23 16:31	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 10:30	04/21/23 16:31	,
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/23 10:30	04/21/23 16:31	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				04/21/23 10:30	04/21/23 16:31	
Method: TAL SOP Total BTEX -			70 <sub>-</sub> 130	MDL	Unit	D	04/21/23 10:30 Prepared	04/21/23 16:31 Analyzed	
Analyte	- Total BTEX Cald	Qualifier	70 - 130  RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	04/21/23 10:30 Prepared	Analyzed 04/24/23 13:40	Dil Fa
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL		mg/Kg		Prepared	Analyzed 04/24/23 13:40	Dil Fac
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX  Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL		mg/Kg		Prepared	Analyzed 04/24/23 13:40	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00401 sel Range Organ Result 58.8	Qualifier U ics (DRO) ( Qualifier	RL 0.00401  GC)  RL 50.0		mg/Kg		Prepared	Analyzed 04/24/23 13:40 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies	- Total BTEX Calc Result <0.00401 sel Range Organ Result 58.8 sesel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00401  GC)  RL 50.0	MDL	mg/Kg		Prepared	Analyzed 04/24/23 13:40 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <0.00401 sel Range Organ Result 58.8 sesel Range Orga	Qualifier U ics (DRO) (Qualifier nics (DRO) Qualifier	RL 0.00401  GC)  RL 50.0  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/24/23 13:40  Analyzed 04/24/23 11:55	Dil Fac

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27467-1 SDG: Lea County, NM

Client Sample ID: SW-6 (8.5') Date Collected: 04/20/23 00:00

Lab Sample ID: 880-27467-11

Date Received: 04/21/23 10:20

	Mat	rix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continue	ed)				
Analyte	Result	Qualifier	RL	MDL Unit	t D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/l	/Kg	04/21/23 14:02	04/23/23 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			04/21/23 14:02	04/23/23 01:54	1
o-Terphenyl	114		70 - 130			04/21/23 14:02	04/23/23 01:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed 4.97 04/23/23 05:54 368 Chloride mg/Kg

Client Sample ID: SW-7 (8.5') Lab Sample ID: 880-27467-12 Date Collected: 04/20/23 00:00

Date Received: 04/21/23 10:20

o-Xylene

**Matrix: Solid** 

Analyzed

04/21/23 16:52

04/21/23 16:52

04/21/23 16:52

04/21/23 16:52

04/21/23 16:52

04/24/23 13:40

04/21/23 10:30

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Prepared Benzene <0.00199 U 0.00199 04/21/23 10:30 mg/Kg Toluene <0.00199 U 0.00199 04/21/23 10:30 mg/Kg Ethylbenzene <0.00199 U 0.00199 04/21/23 10:30 mg/Kg m-Xylene & p-Xylene 04/21/23 10:30 <0.00398 U 0.00398 mg/Kg

<0.00199 U

Xylenes, Total <0.00398 U 0.00398 mg/Kg 04/21/23 10:30 04/21/23 16:52 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 114 04/21/23 10:30 04/21/23 16:52 1,4-Difluorobenzene (Surr) 104 70 - 130 04/21/23 10:30 04/21/23 16:52

0.00199

mg/Kg

mg/Kg

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

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Dil Fac RL Unit D Prepared Analyzed 50.0 04/24/23 11:55 **Total TPH** 85.3 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac <50.0 50.0 04/21/23 14:02 04/23/23 02:15 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 04/21/23 14:02 04/23/23 02:15 **Diesel Range Organics (Over** 85.3 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/21/23 14:02 04/23/23 02:15 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 127 70 - 130 04/21/23 14:02 04/23/23 02:15 70 - 130 04/21/23 14:02 o-Terphenyl 114 04/23/23 02:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Chloride 328 5.01 04/23/23 06:07 mg/Kg

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Dil Fac

Client: Carmona Resources

Job ID: 880-27467-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

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

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20 Lab Sample ID: 880-27467-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 17:12	
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 10:30	04/21/23 17:12	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 10:30	04/21/23 17:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				04/21/23 10:30	04/21/23 17:12	
1,4-Difluorobenzene (Surr)	93		70 - 130				04/21/23 10:30	04/21/23 17:12	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 13:40	,
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.0		49.8		mg/Kg			04/24/23 11:55	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 02:36	,
Diesel Range Organics (Over C10-C28)	86.0		49.8		mg/Kg		04/21/23 14:02	04/23/23 02:36	,
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 14:02	04/23/23 02:36	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	149	S1+	70 - 130				04/21/23 14:02	04/23/23 02:36	
o-Terphenyl	132	S1+	70 - 130				04/21/23 14:02	04/23/23 02:36	:
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

# **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-27467-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

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)	
880-27436-A-1-A MS	Matrix Spike	138 S1+	98	
880-27436-A-1-B MSD	Matrix Spike Duplicate	125	87	
380-27467-1	CS-1 (8.5')	63 S1-	111	
380-27467-2	CS-2 (8.5')	97	75	
380-27467-3	CS-3 (8.5')	117	88	
380-27467-4	CS-4 (8.5')	125	102	
880-27467-5	CS-5 (8.5')	123	105	
380-27467-6	SW-1 (8.5')	123	108	
380-27467-7	SW-2 (8.5')	93	79	
380-27467-8	SW-3 (8.5')	124	93	
380-27467-9	SW-4 (8.5')	108	104	
380-27467-10	SW-5 (8.5')	113	106	
380-27467-11	SW-6 (8.5')	111	108	
380-27467-12	SW-7 (8.5')	114	104	
380-27467-13	H-3 (0-0.5)	121	93	
_CS 880-51667/1-A	Lab Control Sample	104	95	
_CSD 880-51667/2-A	Lab Control Sample Dup	113	94	
MB 880-51667/5-A	Method Blank	104	85	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-27467-1	CS-1 (8.5')	121	110	
380-27467-1 MS	CS-1 (8.5')	111	90	
380-27467-1 MSD	CS-1 (8.5')	115	96	
380-27467-2	CS-2 (8.5')	130	114	
380-27467-3	CS-3 (8.5')	124	107	
380-27467-4	CS-4 (8.5')	139 S1+	123	
380-27467-5	CS-5 (8.5')	109	98	
380-27467-6	SW-1 (8.5')	142 S1+	125	
380-27467-7	SW-2 (8.5')	144 S1+	127	
380-27467-8	SW-3 (8.5')	119	106	
380-27467-9	SW-4 (8.5')	126	114	
380-27467-10	SW-5 (8.5')	120	109	
380-27467-11	SW-6 (8.5')	127	114	
380-27467-12	SW-7 (8.5')	127	114	
380-27467-13	H-3 (0-0.5)	149 S1+	132 S1+	
_CS 880-51720/2-A	Lab Control Sample	98	93	
_CSD 880-51720/3-A	Lab Control Sample Dup	103	95	
MB 880-51720/1-A	Method Blank	120	124	

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2

3

4

6

8

10

15

13

Prep Type: Total/NA

OTPH = o-Terphenyl

## **QC Sample Results**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51667/5-A

**Matrix: Solid** 

Analysis Batch: 51665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51667

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 08:49	04/21/23 10:58	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/2	21/23 08:49	04/21/23 10:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/2	21/23 08:49	04/21/23 10:58	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-51667/1-A

Matrix: Solid

Analysis Batch: 51665

Prep Type: Total/NA

Prep Batch: 51667

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	
Toluene	0.100	0.1005		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-51667/2-A

**Matrix: Solid** 

Analysis Batch: 51665

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 51667

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09924		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	4	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2060		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 880-27436-A-1-A MS

**Matrix: Solid** 

Analysis Batch: 51665

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

Prep Batch: 51667

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.08470		mg/Kg		85	70 - 130	
Toluene	0.00345		0.0998	0.1007		mg/Kg		97	70 - 130	

**Eurofins Midland** 

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## QC Sample Results

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

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

Lab Sample ID: 880-27436-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 51665** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.1169		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2515		mg/Kg		125	70 - 130	
o-Xylene	< 0.00199	U	0.0998	0.1220		mg/Kg		121	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-27436-A-1-B MSD

**Matrix: Solid** 

**Analysis Batch: 51665** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51667

Prep Batch: 51667

Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier RPD Limit Analyte Added Unit %Rec Limits 0.0990 Benzene <0.00199 U 0.08431 mg/Kg 85 70 - 130 0 35 Toluene 0.00345 0.08838 0.0990 mg/Kg 86 70 - 130 13 35 Ethylbenzene <0.00199 U 0.0990 0.09808 mg/Kg 98 70 - 130 18 35 <0.00398 U 0.198 0.2057 70 - 130 20 35 m-Xylene & p-Xylene mg/Kg 103 <0.00199 U 0.0990 0.09935 70 - 130 20 o-Xylene mg/Kg 99

MSD MSD

Surrogate	%Recovery (	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-51720/1-A

**Matrix: Solid** 

Analysis Batch: 51776

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 51720

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 14:02	04/22/23 20:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/23 14:0	04/22/23 20:18	1
o-Terphenyl	124		70 - 130	04/21/23 14:0	2 04/22/23 20:18	1

Lab Sample ID: LCS 880-51720/2-A

**Matrix: Solid** 

**Analysis Batch: 51776** 

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

Prep Batch: 51720

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	814.8	-	mg/Kg		81	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	816.5		mg/Kg		82	70 - 130
C10-C28)							

Limits 70 - 130

70 - 130

Job ID: 880-27467-1

SDG: Lea County, NM

# Client: Carmona Resources Project/Site: Flood AFN #1

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

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Lab Sample ID: LCS 880-51720/2-A

**Matrix: Solid** 

**Analysis Batch: 51776** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 51720

	LCS	LCS
Surrogate	%Recovery	Qualifier
1-Chlorooctane	98	

Lab Sample ID: LCSD 880-51720/3-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 51776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51720

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	842.4		mg/Kg		84	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	940.6		mg/Kg		94	70 - 130	14	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-27467-1 MS

**Matrix: Solid** 

Analysis Batch: 51776

Client Sample ID: CS-1 (8.5')

Prep Type: Total/NA

Prep Batch: 51720

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	920.2		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	74.0		997	899.9		mg/Kg		83	70 - 130	
	MS	MS								

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-27467-1 MSD

**Matrix: Solid** 

**Analysis Batch: 51776** 

Client Sample ID: CS-1 (8.5')

Prep Type: Total/NA

Prep Batch: 51720

	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	<50.0	U	998	848.7		mg/Kg		83	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	74.0		998	952.4		mg/Kg		88	70 - 130	6	20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	96		70 - 130

**Eurofins Midland** 

4/25/2023

Job ID: 880-27467-1

**Prep Type: Soluble** 

Client: Carmona Resources Project/Site: Flood AFN #1

SDG: Lea County, NM

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51733/1-A

**Matrix: Solid** 

Analysis Batch: 51836

Analyte	Result	Qualifier	RL	MDL	Unit	0	F	repared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg				04/23/23 04:17	1

Lab Sample ID: LCS 880-51733/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51836

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier I	Unit	D	%Rec	Limits
Chloride	250	269.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-51733/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 51836

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	264.7		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 880-27403-A-4-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 51836

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1540		1260	2836		mg/Kg		103	90 - 110	

Lab Sample ID: 880-27403-A-4-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51836

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	1540		1260	2791		mg/Kg		100	90 - 110	2	20	

Lab Sample ID: MB 880-51743/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51838

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/22/23 17:38	1

Lab Sample ID: LCS 880-51743/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 51838** 

-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	 250	269.2		ma/Ka		108	90 - 110

Lab Sample ID: LCSD 880-51743/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

Matrix: Solid

Released to Imaging: 7/28/2023 3:13:42 PM

Analysis Batch: 51838									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	267.3		mg/Kg		107	90 - 110	1	20

# **QC Sample Results**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-27467-1 MS Client Sample ID: CS-1 (8.5') **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 51838

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	300	F1	250	511.6	F1	mg/Kg		85	90 - 110	

Lab Sample ID: 880-27467-1 MSD Client Sample ID: CS-1 (8.5') **Matrix: Solid** 

**Prep Type: Soluble** 

Analysis Batch: 51838

Sample Sample Spike MSD MSD %Rec RPD Limit Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Unit 250 Chloride 300 F1 505.0 F1 mg/Kg 82 90 - 110

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

## **GC VOA**

#### Analysis Batch: 51665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8021B	51667
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8021B	51667
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8021B	51667
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8021B	51667
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8021B	51667
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8021B	51667
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8021B	51667
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8021B	51667
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8021B	51667
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8021B	51667
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8021B	51667
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8021B	51667
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8021B	51667
MB 880-51667/5-A	Method Blank	Total/NA	Solid	8021B	51667
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	8021B	51667
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51667
880-27436-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	51667
880-27436-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51667

#### Prep Batch: 51667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	5035	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	5035	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	5035	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	5035	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	5035	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	5035	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	5035	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	5035	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	5035	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	5035	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	5035	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	5035	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	5035	
MB 880-51667/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27436-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27436-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 51751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	Total BTEX	

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

# **GC VOA (Continued)**

## **Analysis Batch: 51751 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-10	SW-5 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	Total BTEX	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

# Prep Batch: 51720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27467-1 MS	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	
880-27467-1 MSD	CS-1 (8.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 51776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015B NM	51720
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015B NM	51720
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51720
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51720
880-27467-1 MS	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720
880-27467-1 MSD	CS-1 (8.5')	Total/NA	Solid	8015B NM	51720

# **QC Association Summary**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

### GC Semi VOA

### Analysis Batch: 51844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Total/NA	Solid	8015 NM	
880-27467-2	CS-2 (8.5')	Total/NA	Solid	8015 NM	
880-27467-3	CS-3 (8.5')	Total/NA	Solid	8015 NM	
880-27467-4	CS-4 (8.5')	Total/NA	Solid	8015 NM	
880-27467-5	CS-5 (8.5')	Total/NA	Solid	8015 NM	
880-27467-6	SW-1 (8.5')	Total/NA	Solid	8015 NM	
880-27467-7	SW-2 (8.5')	Total/NA	Solid	8015 NM	
880-27467-8	SW-3 (8.5')	Total/NA	Solid	8015 NM	
880-27467-9	SW-4 (8.5')	Total/NA	Solid	8015 NM	
880-27467-10	SW-5 (8.5')	Total/NA	Solid	8015 NM	
880-27467-11	SW-6 (8.5')	Total/NA	Solid	8015 NM	
880-27467-12	SW-7 (8.5')	Total/NA	Solid	8015 NM	
880-27467-13	H-3 (0-0.5)	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 51733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-11	SW-6 (8.5')	Soluble	Solid	DI Leach	
880-27467-12	SW-7 (8.5')	Soluble	Solid	DI Leach	
880-27467-13	H-3 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-51733/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51733/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51733/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27403-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27403-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Leach Batch: 51743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-2	CS-2 (8.5')	Soluble	Solid	DI Leach	
880-27467-3	CS-3 (8.5')	Soluble	Solid	DI Leach	
880-27467-4	CS-4 (8.5')	Soluble	Solid	DI Leach	
880-27467-5	CS-5 (8.5')	Soluble	Solid	DI Leach	
880-27467-6	SW-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-7	SW-2 (8.5')	Soluble	Solid	DI Leach	
880-27467-8	SW-3 (8.5')	Soluble	Solid	DI Leach	
880-27467-9	SW-4 (8.5')	Soluble	Solid	DI Leach	
880-27467-10	SW-5 (8.5')	Soluble	Solid	DI Leach	
MB 880-51743/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51743/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51743/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27467-1 MS	CS-1 (8.5')	Soluble	Solid	DI Leach	
880-27467-1 MSD	CS-1 (8.5')	Soluble	Solid	DI Leach	

### Analysis Batch: 51836

<b>Lab Sample ID</b> 880-27467-11	Client Sample ID SW-6 (8.5')	Prep Type Soluble	Solid	Method 300.0	Prep Batch 51733
880-27467-12	SW-7 (8.5')	Soluble	Solid	300.0	51733
880-27467-13	H-3 (0-0.5)	Soluble	Solid	300.0	51733
MB 880-51733/1-A	Method Blank	Soluble	Solid	300.0	51733

## **QC Association Summary**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

## **HPLC/IC** (Continued)

### Analysis Batch: 51836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-51733/2-A	Lab Control Sample	Soluble	Solid	300.0	51733
LCSD 880-51733/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51733
880-27403-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	51733
880-27403-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51733

### Analysis Batch: 51838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27467-1	CS-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-2	CS-2 (8.5')	Soluble	Solid	300.0	51743
880-27467-3	CS-3 (8.5')	Soluble	Solid	300.0	51743
880-27467-4	CS-4 (8.5')	Soluble	Solid	300.0	51743
880-27467-5	CS-5 (8.5')	Soluble	Solid	300.0	51743
880-27467-6	SW-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-7	SW-2 (8.5')	Soluble	Solid	300.0	51743
880-27467-8	SW-3 (8.5')	Soluble	Solid	300.0	51743
880-27467-9	SW-4 (8.5')	Soluble	Solid	300.0	51743
880-27467-10	SW-5 (8.5')	Soluble	Solid	300.0	51743
MB 880-51743/1-A	Method Blank	Soluble	Solid	300.0	51743
LCS 880-51743/2-A	Lab Control Sample	Soluble	Solid	300.0	51743
LCSD 880-51743/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51743
880-27467-1 MS	CS-1 (8.5')	Soluble	Solid	300.0	51743
880-27467-1 MSD	CS-1 (8.5')	Soluble	Solid	300.0	51743

SDG: Lea County, NM

Client Sample ID: CS-1 (8.5')

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client: Carmona Resources

Project/Site: Flood AFN #1

Lab Sample ID: 880-27467-1

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			5.02 g	5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 21:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 17:52	SMC	EET MID

Client Sample ID: CS-2 (8.5')

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Lab Sample ID: 880-27467-2

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			5.02 g	5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:07	SMC	EET MID

Client Sample ID: CS-3 (8.5')

Date Collected: 04/20/23 00:00

Date Received: 04/21/23 10:20

Lab Sample ID: 880-27467-3

**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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 22:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:12	SMC	EET MID

Client Sample ID: CS-4 (8.5')

Date Collected: 04/20/23 00:00

Date Received: 04/21/23 10:20

b Sample ID: 880-27467-4	-4
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**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			4.98 g	5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID

Client: Carmona Resources

Job ID: 880-27467-1

Project/Site: Flood AFN #1

SDG: Lea County, NM

Client Sample ID: CS-4 (8.5')

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20 Lab Sample ID: 880-27467-4

Matrix: Solid

**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			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 23:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:17	SMC	EET MID

Client Sample ID: CS-5 (8.5')

Lab Sample ID: 880-27467-5

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 5.02 g 5 mL 51667 04/21/23 10:30 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 51665 04/21/23 13:24 MNR **EET MID** 1 Total/NA Total BTEX Analysis 1 51751 04/21/23 15:12 SM **EET MID** Total/NA Analysis 8015 NM 51844 04/24/23 11:55 SM **EET MID** Total/NA Prep 8015NM Prep 10.02 g 10 mL 51720 04/21/23 14:02 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 51776 04/22/23 23:30 SM **EET MID** 1 uL Soluble Leach DI Leach 4.96 g 50 mL 51743 04/21/23 14:39 KS **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 51838 04/22/23 18:21 SMC **EET MID** 

Client Sample ID: SW-1 (8.5')

Date Collected: 04/20/23 00:00

Lab Sample ID: 880-27467-6

Matrix: Solid

Date Received: 04/21/23 10:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		5.0		5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 23:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:36	SMC	EET MID

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	51720 51776	04/21/23 14:02 04/23/23 00:12	AJ SM	EET MID EET MID

**Eurofins Midland** 

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**Matrix: Solid** 

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27467-1 SDG: Lea County, NM

Client Sample ID: SW-2 (8.5')

Lab Sample ID: 880-27467-7

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

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			5.03 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:41	SMC	EET MID

Lab Sample ID: 880-27467-8

Client Sample ID: SW-3 (8.5') Date Collected: 04/20/23 00:00 Matrix: Solid

Date Received: 04/21/23 10:20

	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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/21/23 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:46	SMC	EET MID

Client Sample ID: SW-4 (8.5') Lab Sample ID: 880-27467-9

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 51667 04/21/23 10:30 MNR **EET MID** Total/NA 8021B 5 mL 5 mL 04/21/23 15:49 MNR **EET MID** Analysis 1 51665 Total/NA Analysis Total BTEX 1 51751 04/24/23 13:40 SM **EET MID** 

Total/NA Analysis 8015 NM 1 51844 04/24/23 11:55 SM **EET MID** Total/NA Prep 8015NM Prep 10.03 g 10 mL 51720 04/21/23 14:02 **EET MID** AJTotal/NA Analysis **EET MID** 8015B NM 1 uL 1 uL 51776 04/23/23 00:53 SM Soluble Leach DI Leach 4.99 g 50 mL 51743 04/21/23 14:39 KS EET MID Soluble Analysis 300.0 50 mL 50 mL 51838 04/22/23 18:50 SMC **EET MID** Lab Sample ID: 880-27467-10

Client Sample ID: SW-5 (8.5')

Date Collected: 04/20/23 00:00 **Matrix: Solid** 

Date Received: 04/21/23 10:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 16:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51743	04/21/23 14:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51838	04/22/23 18:55	SMC	EET MID

Job ID: 880-27467-1

SDG: Lea County, NM

Client Sample ID: SW-6 (8.5')

Lab Sample ID: 880-27467-11

**Matrix: Solid** 

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client: Carmona Resources

Project/Site: Flood AFN #1

	Batch	Batch		Dil Initial Fir		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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51733	04/21/23 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51836	04/23/23 05:54	SMC	EET MID

Lab Sample ID: 880-27467-12

**Matrix: Solid** 

Date Collected: 04/20/23 00:00 Date Received: 04/21/23 10:20

Client Sample ID: SW-7 (8.5')

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 51667 04/21/23 10:30 MNR EET MID 8021B Total/NA 5 mL 04/21/23 16:52 **EET MID** Analysis 1 5 mL 51665 MNR Total/NA Total BTEX 51751 04/24/23 13:40 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 51844 04/24/23 11:55 SM **EET MID** Total/NA 51720 Prep 8015NM Prep 10.01 g 10 mL 04/21/23 14:02 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 51776 04/23/23 02:15 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 51733 04/21/23 14:17 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 51836 04/23/23 06:07 SMC **EET MID** 

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

Lab Sample ID: 880-27467-13

Date Collected: 04/20/23 00:00 **Matrix: Solid** Date Received: 04/21/23 10:20

	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	51667	04/21/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51751	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51844	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 02:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51733	04/21/23 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51836	04/23/23 06:12	SMC	EET MID

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: Carmona Resources Job ID: 880-27467-1 Project/Site: Flood AFN #1 SDG: Lea County, NM

### **Laboratory: Eurofins Midland**

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

ority		Program	Identification Number	Expiration Date						
S	1	NELAP	T104704400-22-25	06-30-23						
he following analytes and off	•	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which						
nalysis Method	Prep Method	Matrix	Analyte							
00.0		Solid	Chloride							
015 NM		Solid	Total TPH	Total TPH						
015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)						
015B NM	8015NM Prep	Solid	Gasoline Range Organics (GF	ics (GRO)-C6-C10						
015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	3-C36)						
021B	5035	Solid	Benzene							
021B	5035	Solid	Ethylbenzene							
021B	5035	Solid	m-Xylene & p-Xylene							
021B	5035	Solid	o-Xylene							
021B	5035	Solid	Toluene							
021B	5035	Solid	Xylenes, Total							
otal BTEX		Solid	Total BTEX							

## **Method Summary**

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27467-1

SDG: Lea County, NM

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

## **Sample Summary**

Client: Carmona Resources Project/Site: Flood AFN #1

Job ID: 880-27467-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-27467-1	CS-1 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-2	CS-2 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
380-27467-3	CS-3 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
380-27467-4	CS-4 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-5	CS-5 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-6	SW-1 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-7	SW-2 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-8	SW-3 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
380-27467-9	SW-4 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-10	SW-5 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-11	SW-6 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
880-27467-12	SW-7 (8.5')	Solid	04/20/23 00:00	04/21/23 10:20	
380-27467-13	H-3 (0-0.5)	Solid	04/20/23 00:00	04/21/23 10:20	

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Work Order No: 27467

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Project Manager	Conner Moehri	ng			Bill to: (if a	different)		Todd	Wells						╛┃	Work Order Comments									
Company Name	Carmona Reso	urces			Company	/ Name.		EOG	Resou	rces						Progra	am: US	ST/PS	ST [	PRP	□row	nfields	□RC	<b>∏</b> perfund	П
Address.	310 W Wall St	Ste 500			Address			5509	Champ	oions D						State o								1IP - 1.1.1.1.1	٦
City, State ZIP	Midland, TX 79	701			City, Stat	e ZIP		Midla	nd, Tx	79706						Report	ing Le	vel II	Le	vel III	□sī	/UST	RRP	evel IV	
Phone:	432-813-6823			Email	Todd V	/ells@eo	gresour	ces.co	<u>om</u>							Deliver	rables	EDE		]	ADaF	т 🗆	Other		
Project Name:		Flood AFN #1		Turn	Around				***************************************		· · · · · · · · · · · · · · · · · · ·		ANAL	/SIS R	EQU	EST		,,,,					Prosent	ative Codes	
Project Number		2011		☐ Routine	☑ Rush		Pres. Code							T						T	T		NO	DI Water H <sub>2</sub>	$\overline{}$
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PO#:					nours		ys.	ŀ	₹ +					1	-		ŀ					H <sub>2</sub> S0		NaOH Na	
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Sample Custody Sea	ls. Yes	No MA	Temperature Re			2		<u> </u>	9W (	סֿ				ŀ		ŀ				1		1	cetate+Na	=	
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Page 118 of 121

4/25/2023

Received by OCD: 5/10/2023 12:33:56 PM

									,														Page2	2 of2
Project Manager	Conner Moehring Carmona Resources					Bill to: (if different)				Todd Wells							Work Order Comments							
					Company	y Name		EOG	Resou	rces					7	Progr	am: U	ST/PS	т∏е	RP [	rown	fields RC	<b></b> □perfund [	
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City, State ZIP	Midland, T	X 797	01			City Stat	e ZIP		Midla	nd, Tx	79706					7	Repoi	rting Le	evel (I	Lev	el III	□st/	UST RRP	Level IV
Phone:	432-813-6	823			Email	Todd V	Vells@ec	gresour	ces.co	om_						7	ļ	erables				ADaP		r
Project Name		F	lood AFN #1		Turn	Around					*****			ANAL'	YSIS F	FOI	JEST						Drosonic	ative Codes
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Received Intact:		Yes	No No	Thermometer ID				l Ē	BTEX 8021B	-	Chloride 300												NaHSO₄ NABI	IS
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SW-7	(8.5')		4/20/2023		Х		Comp	1	X	X	Х													
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### **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-27467-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

Login Number: 27467 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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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 215536

#### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	215536
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	7/28/2023