CARMONA RESOURCES

SITE INFORMATION

Closure Report
DL 10 15 Ogopogo Federal Com #422H (10.16.2022 & 10.20.2022)
Lea County, New Mexico
Unit I Sec 10 T22S R33E
32.404479°, -103.555760°

Prepared for:
Chevron U.S.A., Inc.
6301 Deauville Blvd
Midland, Texas 79706

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

CARMONA RESOURCES

Incident Number: NAPP2229333460
Produced Water Release
Point of Release: 8-inch hose failed
Release Dates: 10.16.2022
Volumes Released: 30 Barrels of Produced Water
Volumes Recovered: 27 Barrels of Produced Water

Incident Number: NAPP2230526211
Produced Water Release
Point of Release: Frac operations main water supply line failed
Release Dates: 10.20.2022
Volumes Released: 1,091 Barrels of Produced Water
Volumes Recovered: 1,000 Barrels of Produced Water

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

CARMONA RESOURCES

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

CARMONA RESOURCES

January 31, 2025

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

Re: Closure Report
DL 10 15 Ogopogo Federal Com #422H (10.16.2022 & 10.20.2022)
Incident IDs: NAPP2229333460 & NAPP2230526211
Chevron U.S.A., Inc.
Site Location: Unit I, S10, T22S, R33E
(Lat 32.404479º, Long -103.555760º)
Lea County, New Mexico

To whom it may concern:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site activities for the DL 10 15 Ogopogo Federal Com #422H. The site is located at 32.404479º, -103.555760º within Unit I, S10, T22S, R33E, in Lea County, New Mexico (Figure 1 and Figure 2).

1.0 Site Information and Background

NAPP2229333460:

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 16, 2022, due to an 8-inch hose that failed behind the connection. The incident released approximately thirty (30) barrels of produced water with twenty-seven (27) barrels of produced water being recovered. The impacted area was located on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

NAPP2230526211:

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 20, 2022, due to a third party's main water supply line to frac operations that experienced equipment failure when the manifold slid out of the manifold head clamp. The incident released approximately one-thousand ninety-one (1,091) barrels of produced water with one thousand (1,000) barrels of produced water being recovered. The impacted area was located 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, there are no known water sources within a 0.50-mile radius of the location. The closest well is approximately 1.89 miles Southeast of the site in S22, T22S, R33E and was drilled in 1996. The well has a reported depth to groundwater of 391.13 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).

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

4.0 Previous Remediation & Deferral Review

Previous Remediation

Beginning July 13, 2023, a third-party environmental consultant performed remediation activities, collected confirmation samples, and documented backfill activities. The areas were excavated to total depths ranging from 4.0' to 6.0' bgs. A total of one hundred forty-eight (148) composite confirmation samples were collected from the bottom and sidewalls of the excavation areas. 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 Cardinal Laboratories in Hobbs, NM. 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 4500. The previous laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix F. See Figures 3A/3B for the previous remediation maps.

Deferral Review

On July 21, 2024, a third-party environmental consultant submitted a closure report to the NMOCD which included the denied deferral request of four (4) contaminated areas. The points were labeled under the following nomenclature: EX1 CS Southwall, EX2 NW CS2, EX2 NW CS4, and EX2 CS54. These areas were requested for deferral due to the hindrance of onsite equipment. A copy of the denied closure report/deferral request can be found in Appendix F. Carmona Resources was tasked to review the denied deferral request and complete the remediation. Following conversations with NMOCD personnel, a plan was developed to use both hyrdovac operations and mechanical excavation to remove the remaining contaminated material to the best extent possible. A copy of the correspondence with the NMOCD can be found in Appendix C (NMOCD – Extension & Variance).

Secondary Site Assessment

During the review of the denied deferral request, an additional site assessment was requested by the NMOCD to ensure that all contaminated material was removed from the site. On December 20, 2024, Carmona Resources performed site assessment activities to evaluate possible soil impacts remaining onsite. To assess the vertical extent, a total of four (4) test trenches (T-1 through T-4) were advanced to depths ranging from the surface to 3.0' bgs inside and surrounding the areas of concern. See Figure 4 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins 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.

5.0 Remediation Activities

Between December 10, 2024, and January 23, 2025, Carmona Resources personnel were onsite to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on September 26, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of "EX1 CS Southwall" & "EX2 NW CS2" were mechanically excavated to a depth of 1.5' bgs. The area of "EX2 NW CS4" was hydro-excavated to depths ranging from 3.0' to 4.0' bgs. The area of "EX2 CS54" was mechanically excavated to a depth of 4.0' bgs. A total of eighteen (18) confirmation floor samples were

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collected (CS-1 through CS-18), and twenty-five (25) sidewall samples (SW-1 through SW-25) were collected every 400 square feet (per previously approved work plan sampling variance) to ensure the proper removal of the contaminated soils. The area "EX1 CS Southwall" is represented by "T-4" from the secondary site assessment and by "CS-12 & CS-13" during confirmation sampling. The area of "EX2 NW CS2" is represented by "T-3" from the secondary site assessment and by "CS-1 & CS-2" during confirmation sampling. The area of "EX2 NW CS4" is represented by "CS-3 through CS-6 & CS-14 through CS-18" during confirmation sampling. The area of "EX2 CS54" is represented by "CS-7 through CS-11" during confirmation sampling. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. 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 Figures 5A-5D.

Before the excavation was backfilled, a composite sample of the backfill material was collected on January 2, 2025 and January 6, 2025 to ensure the material was clean per NMOCD standards. The backfill material was sourced from Merchant Livestock located at 32.382127, -103.609912. Refer to Table 2. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 4,240 square feet of contamination was remediated, resulting in 540 cubic yards of material 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. Chevron formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

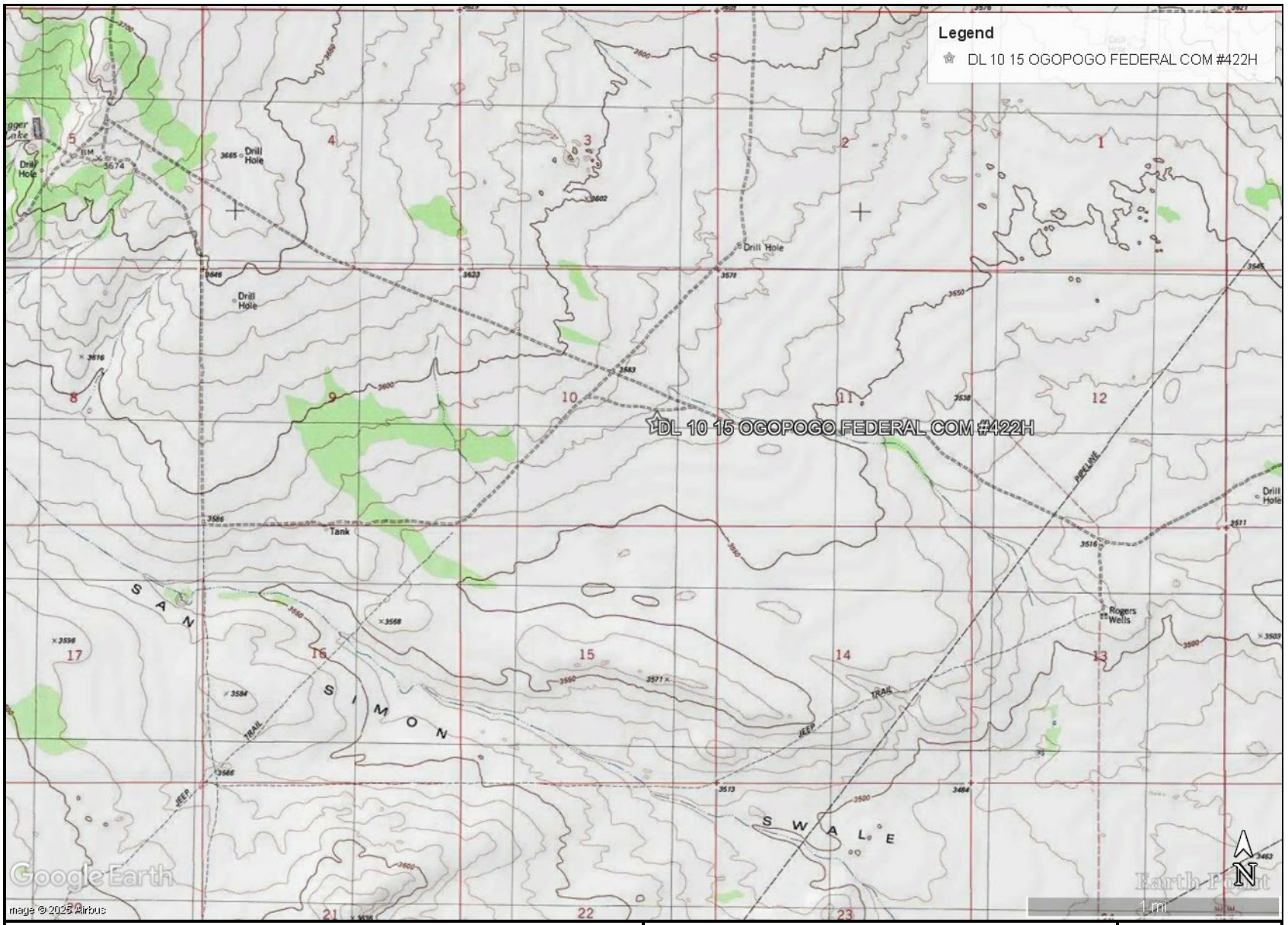
Ashton Thielke
Environmental Manager

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

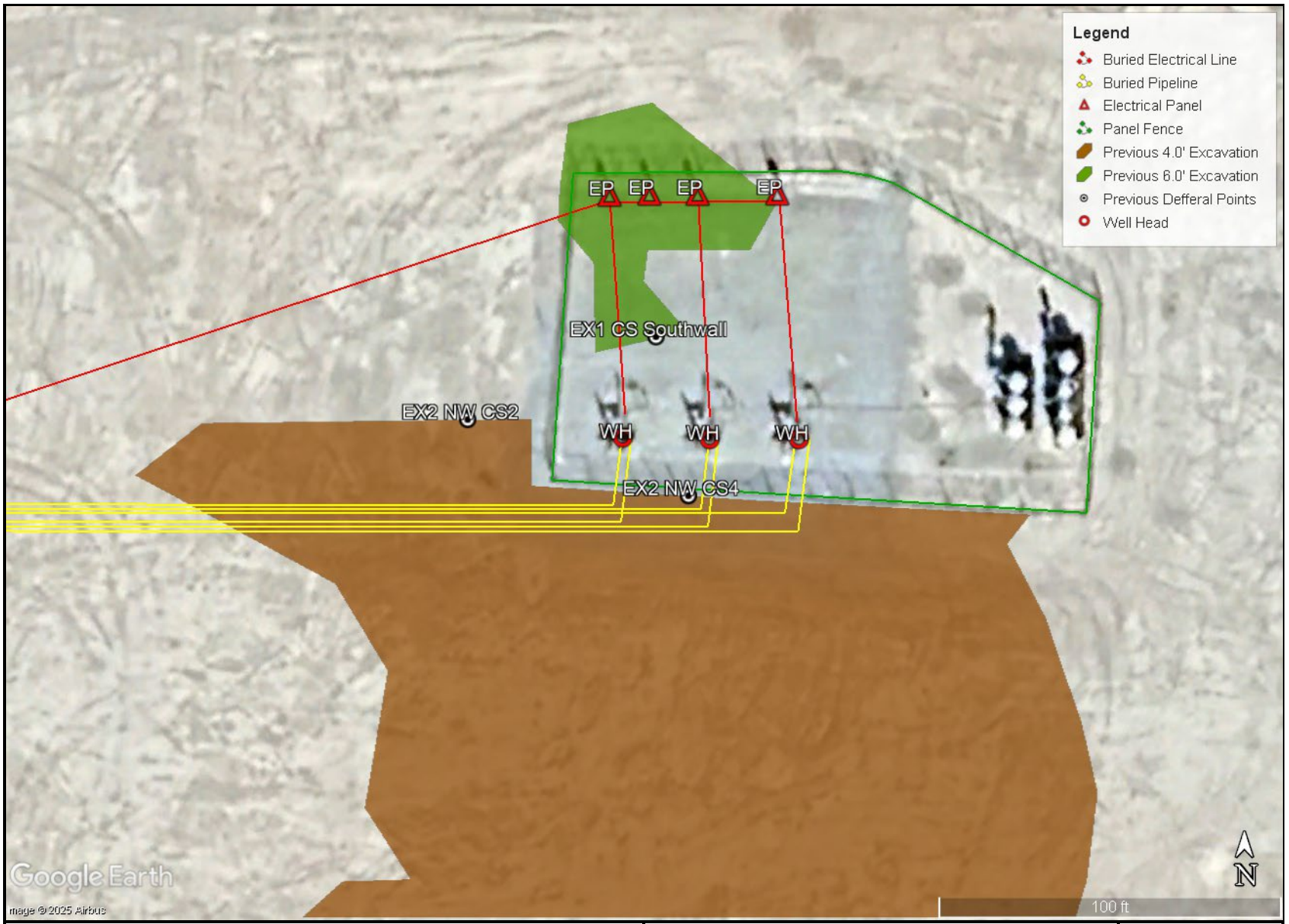
FIGURES

CARMONA RESOURCES

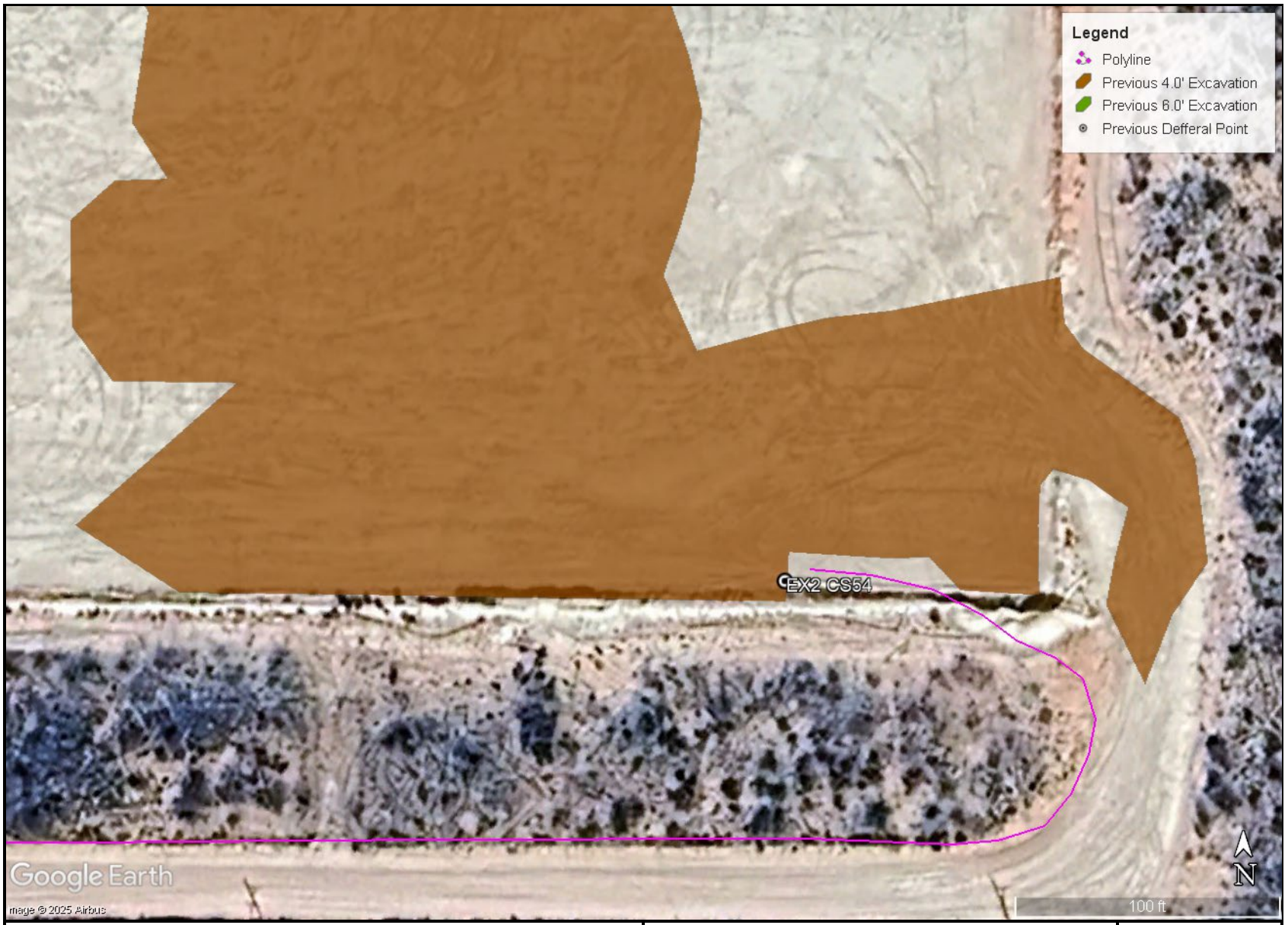
OVERVIEW MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 1



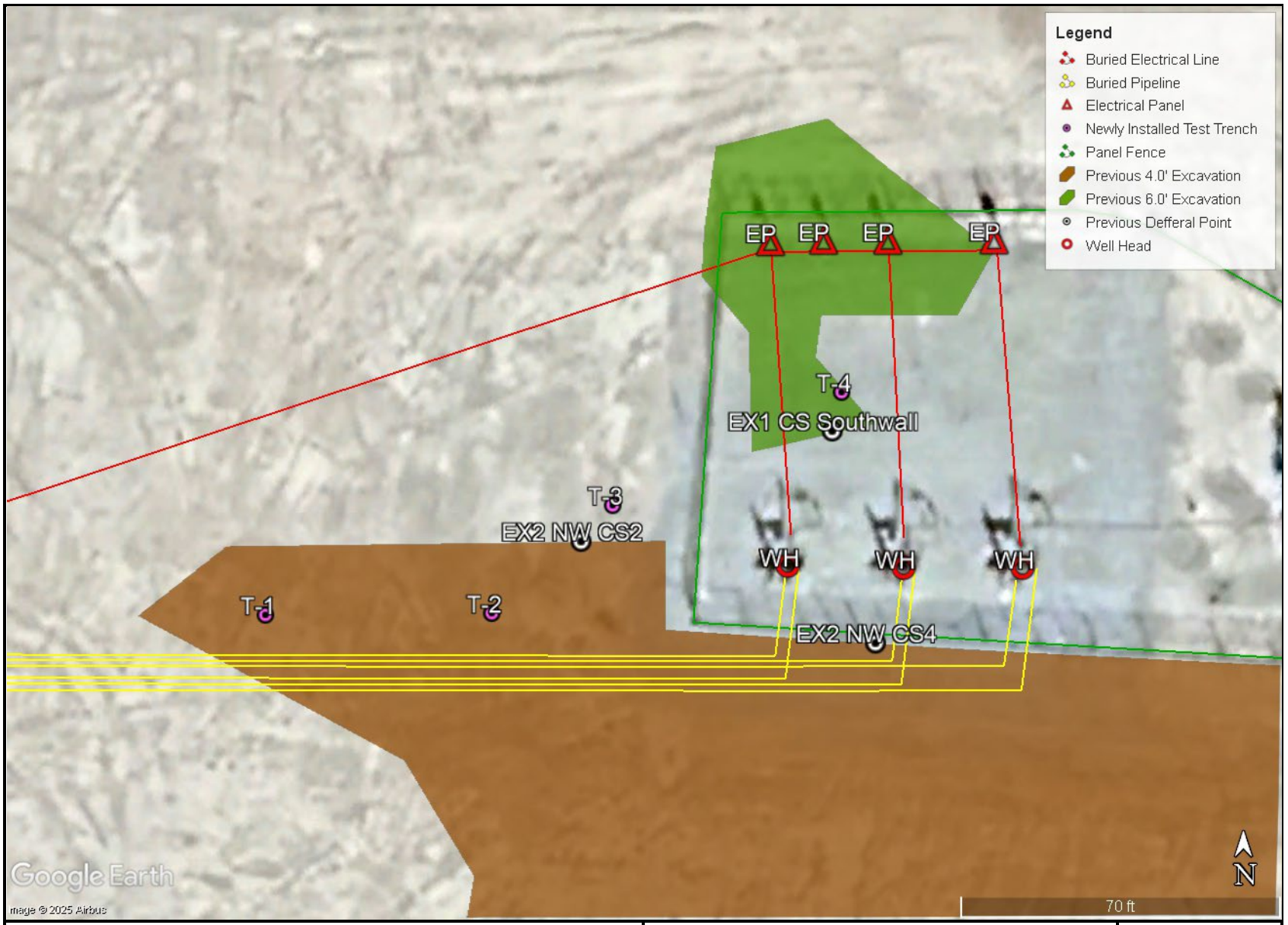
TOPOGRAPHIC MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 2



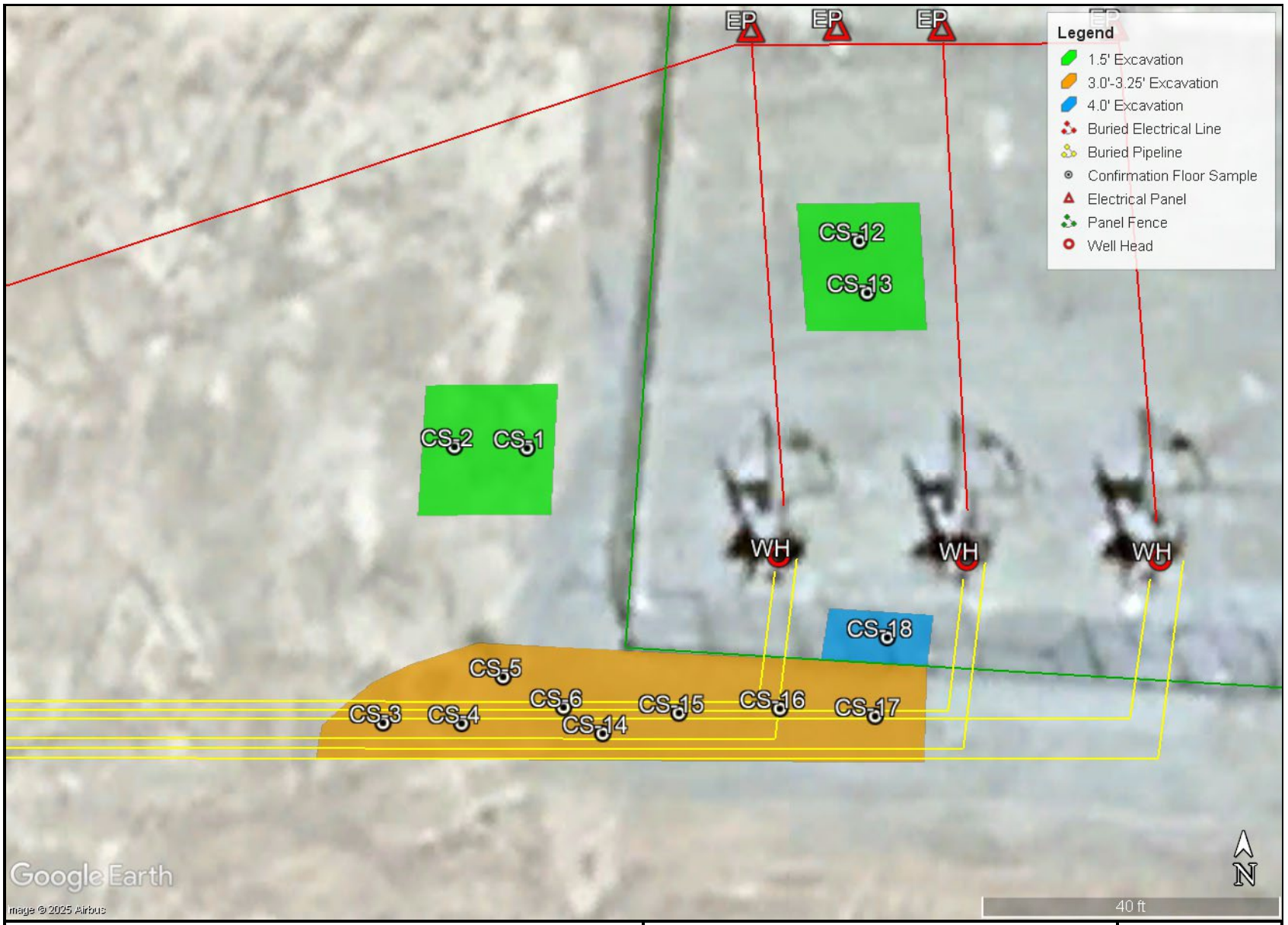
PREVIOUS REMEDIATION AND DEFERRAL MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 3A



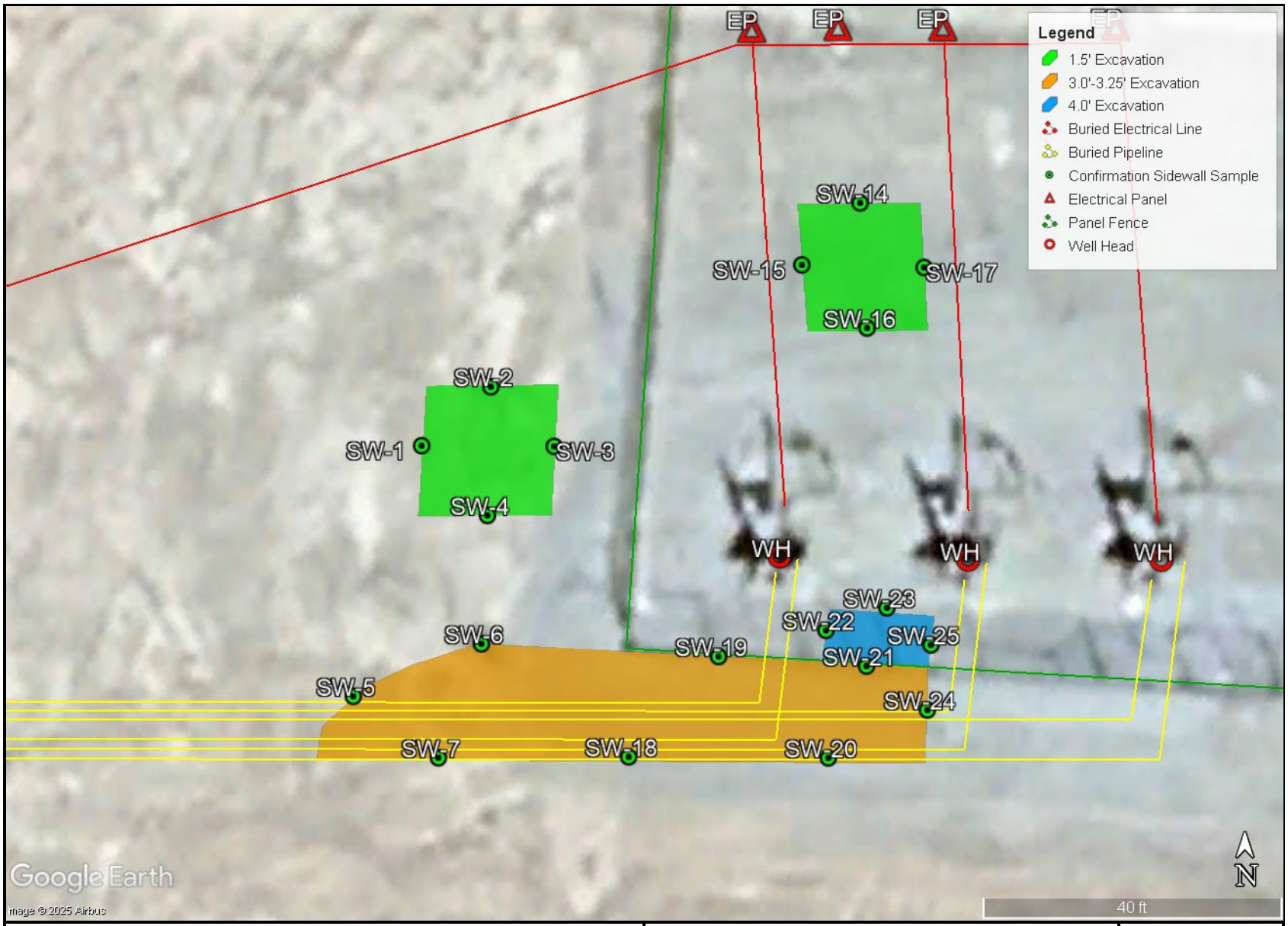
PREVIOUS REMEDIATION AND DEFERRAL MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 3B



SAMPLE LOCATION MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 4



EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 5A



EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 5B

EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 5C

EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. DL 10 15 OGOPOGO FEDERAL COM #422H LEA COUNTY, NEW MEXICO 32.404479°, -103.555760°	CARMONA RESOURCES	FIGURE 5D

APPENDIX A

CARMONA RESOURCES

Table 1
Chevron
DL 10 15 Ogopogo Federal Com #422H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	12/20/2024	0-1.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	132
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	80.2
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	56.2
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.9
T-2	12/20/2024	0-1.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	229
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	93.6
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	79.0
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.5
T-3	12/20/2024	0-1.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**5420**
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	78.7
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	35.4
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	143
T-4	12/20/2024	0-1.0	<49.8	**171**	**386**	**557**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.3
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	442
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	393
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	265
Regulatory 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
(T) Test Trench
Removed

Table 2
Chevron
DL 10 15 Ogopogo Federal Com #422H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	12/20/2024	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
CS-2	12/20/2024	1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	115
CS-3	12/23/2024	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	160
CS-4	12/23/2024	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	111
CS-5	12/23/2024	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	240
CS-6	12/23/2024	3.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	391
CS-7	12/23/2024	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	193
CS-8	12/23/2024	4.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	225
CS-9	12/23/2024	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	208
CS-10	12/23/2024	4.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	151
CS-11	12/23/2024	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	184
CS-12	1/2/2025	1.5	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	353
CS-13	1/2/2025	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	295
CS-14	1/8/2025	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	329
CS-15	1/8/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	280
CS-16	1/8/2025	3.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	223
CS-17	1/8/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**955**
	1/13/2025	3.25	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	105
CS-18	1/8/2025	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	456
Merchant - Backfill Material	1/2/2025	-	<49.8	<49.8	<49.8	<49.8	<0.00199	0.00265	<0.00199	<0.00398	<0.00398	320
	1/6/2025	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	161
Regulatory 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 Sample
Removed

Table 2
Chevron
DL 10 15 Ogopogo Federal Com #422H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	12/20/2024	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	200
SW-2	12/20/2024	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	378
SW-3	12/20/2024	1.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	237
SW-4	12/20/2024	1.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	99.4
SW-5	12/23/2024	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	256
SW-6	12/23/2024	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	387
SW-7	12/23/2024	3.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	178
SW-8	12/23/2024	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	261
SW-9	12/23/2024	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.8
SW-10	12/23/2024	4.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	424
SW-11	12/23/2024	4.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	278
SW-12	12/23/2024	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	116
SW-13	12/23/2024	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	240
SW-14	1/2/2025	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	453
SW-15	1/2/2025	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	444
SW-16	1/2/2025	1.5'	<49.8	**402**	<49.8	**402**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	559
	1/6/2025	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	0.00878	0.00878	471
SW-17	1/2/2025	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	514
SW-18	1/8/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	434
SW-19	1/8/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**1,000**
	1/13/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	219
SW-20	1/8/2025	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	111
SW-21	1/8/2025	3.0-4.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	50.3
SW-22	1/8/2025	4'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	498
SW-23	1/8/2025	4'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	66.6
SW-24	1/8/2025	4'	<49.9	**292**	<49.9	**292**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	472
	1/13/2025	4'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	151
SW-25	1/13/2025	4'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	217
Regulatory 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
(SW) Sidewall Sample
Removed

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 1

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View Northeast, Area of CS-1 through CS-2.

Photograph No. 2

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

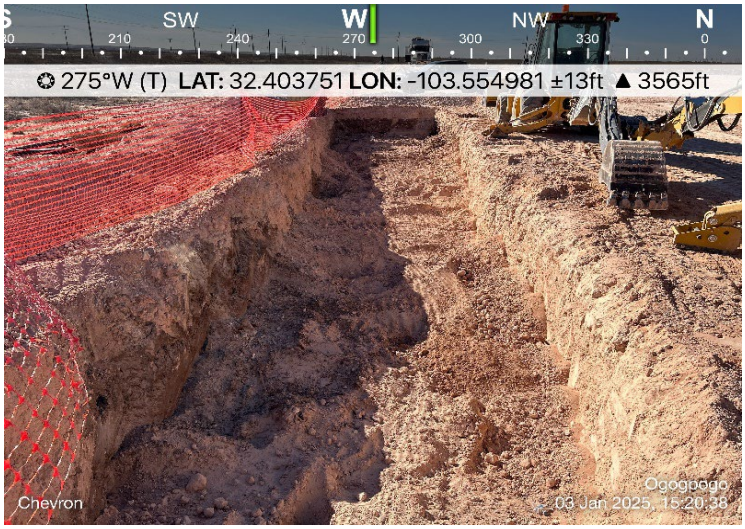
Description:
View West, Area of CS-3 through CS-6, CS-14 through CS-17.

Photograph No. 3

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View West, Area of CS-7 through CS-11.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 4

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View East, Area of CS-7 through CS-11.

Photograph No. 5

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View North, Area of CS-12 through CS-13.

Photograph No. 6

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View North, Area of CS-3 through CS-6, CS-14 through CS-17.

PHOTOGRAPHIC LOG

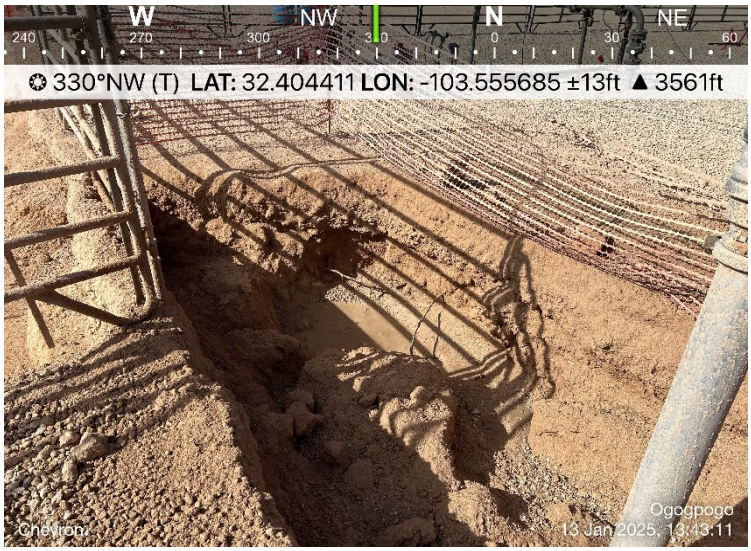
Chevron U.S.A., Inc.

Photograph No. 7

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View North, Area of CS-18.

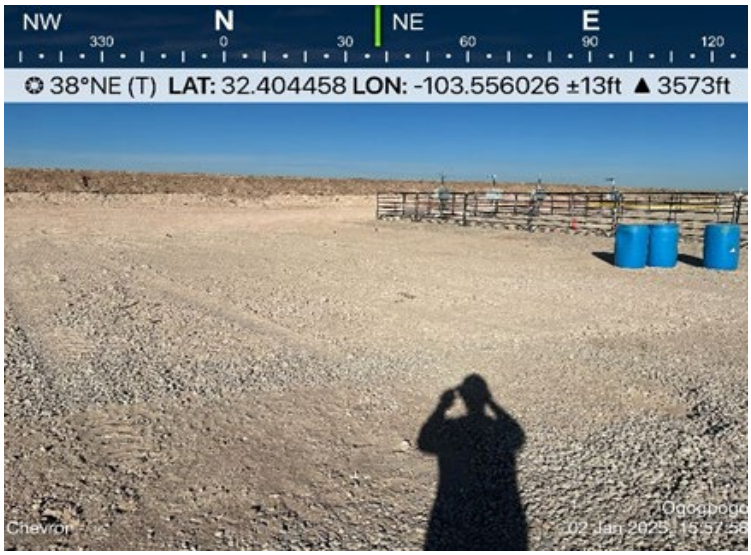


Photograph No. 8

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View East, Area of CS-1 & CS-2 backfilled.



Photograph No. 9

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View West, Area of CS-3 through CS-6, CS-14 through CS-17 backfilled.

PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 10

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

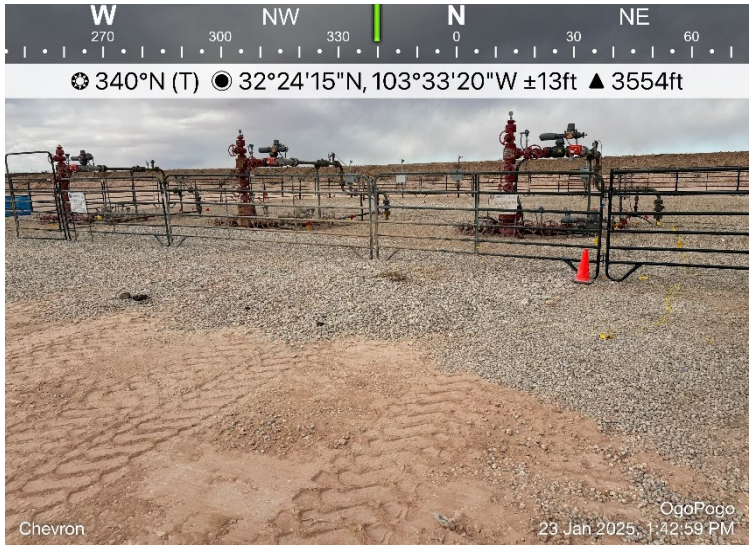
Description:
View East, Area of CS-12 & CS-13 backfilled.

Photograph No. 11

Facility: DL 10 15 OGOPOGO Federal Com #422H (10.16.2022 & 10.20.2022)

County: Lea County, New Mexico

Description:
View North, Area of CS-18 backfilled.



APPENDIX C

CARMONA RESOURCES

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 152228

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 152228
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all of the questions in this group.*	
Site Name	DL 10 15 OGOPOGO FEDERAL COM #422H
Date Release Discovered	10/16/2022
Surface Owner	State

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

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Water Tank | Produced Water | Released: 30 BBL | Recovered: 27 BBL | Lost: 3 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 152228
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Jessica Zemen
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	10/16/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 152228
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☑	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 152228

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 152228
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jzemen	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/20/2022

District I
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Jessica Zemen	Contact Telephone: 432-530-9187
Contact email: jessicazemen@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.40448 Longitude: -103.55576
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: DL 10 15 OGOPOGO FEDERAL COM #422H	Site Type: Oil
Date Release Discovered: 10/16/2022	API# *(if applicable):* 30-025-49906

Unit Letter	Section	Township	Range	County
I	10	22S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 30 bbls	Volume Recovered (bbls): 27 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

An 8” hose failed behind the connection that resulted in a release to land.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume was over 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Jessica Zemen sent an email to Mike Bratcher on 10/16/2022 detailing the release information.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: ____Jessica Zemen_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: Jessica K Zemen Date: ___10/17/2022_____

email: _____jessicazemen@chevron.com _____ Telephone: ____432-530-9187_____

OCD Only

Received by: Jocelyn Harimon Date: 10/20/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Spill Calculations:

	Horizontal Dimensions			Vertical Dimensions		Calculated Volume	
	Diameter (feet)	Length (feet)	Width (feet)	Abovegrade Depth (feet)	Belowgrade Depth (feet)	Gallons	Barrels
Area 1	N/A	120	4	0.17	N/A	612.00	14.57
Area 2	N/A	60	18	0.08	N/A	648.00	15.43
					Total Volume =	1260.00	30.00

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 152234
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	10/20/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 350663

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 350663
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	7,360
What is the estimated number of samples that will be gathered	36
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/11/2023
Time sampling will commence	12:00 PM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Atkins Environmental performed sampling
Please provide any information necessary for navigation to sampling site	GPS Coordinates

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 350663
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/4/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 410188
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/12/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed."

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 410188
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/10/2024

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

QUESTIONS

Action 412061

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 412061
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448, -103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024.

Sante Fe Main Office
Phone: (505) 476-3441

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 412061
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/16/2024

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

QUESTIONS

Action 415095

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415095
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/28/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed."

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415095
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/26/2024

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

QUESTIONS

Action 415942

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415942
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/31/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed."

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Phone: (505) 629-6116

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415942
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/30/2024

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

QUESTIONS

Action 417032

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 417032
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/16/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.40448, -103.55576) Carmona Resources will be onsite on 01.06.2025 through 01.10.2025 to finish sampling activities.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 417032
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/6/2025

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
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 155114
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all of the questions in this group.*	
Site Name	DL 10 15 OGOPOGO FEDERAL COM #422H
Date Release Discovered	10/20/2022
Surface Owner	State

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

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Transport | Produced Water | Released: 1,091 BBL | Recovered: 1,000 BBL | Lost: 91 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 155114
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Jessica Zemen
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	10/21/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 155114
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☑	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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Phone:(505) 334-6178 Fax:(505) 334-6170
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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 155114
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jzemen	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	11/1/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2230526211
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Jessica Zemen	Contact Telephone: 432-530-9187
Contact email: jessicazemen@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.40448 Longitude: -103.55576
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: DL 10 15 OGOPOGO FEDERAL COM #422H	Site Type: Oil
Date Release Discovered: 10/20/2022	API# *(if applicable):* 30-025-49906

Unit Letter	Section	Township	Range	County
I	10	22S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 1091 bbls	Volume Recovered (bbls): 1000 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A third party's main water supply line to the frac operations had an equipment failure when the manifold slid out of the manifold head clamp.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2230526211
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume was over 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Jessica Zemen sent an email to Mike Bratcher on 10/21/2022 detailing the release information.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: ____Jessica Zemen_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: Jessica K Zemen Date: ___10/31/2022_____

email: _____jessicazemen@chevron.com _____ Telephone: ____432-530-9187_____

OCD Only

Received by: Jocelyn Harimon Date: 11/01/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2230526211
District RP	
Facility ID	
Application ID	

Spill Calculations:

Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
1	2 inches		rectangular (169*72*0.1667)		361.27
2	0.25 inches		rectangular (135*20*0.0208)		10.02
3					
4					
5					
6					
7					
8					
			Total Fluid	0	371

6 Vacuum Trucks Loads

6 x 120 bbls. = 720 bbls.

Total Fluid Released

720 bbls. + 371 bbls. = **1091 bbls.**

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 155118
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/1/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 350763

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 350763
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	7,360
What is the estimated number of samples that will be gathered	36
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/11/2023
Time sampling will commence	12:00 PM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Atkins Environmental performed sampling
Please provide any information necessary for navigation to sampling site	GPS coordinates

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 350763
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/4/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 410190

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 410190
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/12/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 410190
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/10/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 412064

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 412064
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448, -103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 412064
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/16/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 415100

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415100
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/28/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed."

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415100
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/26/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 415949

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415949
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/31/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.40448,-103.55576) Carmona Resources will be onsite on 12.12.2024 to begin hydrovac and confirmation sampling onsite. Hydrovac and confirmation sampling operations is expected to be completed by December 31, 2024. Hydrovac and confirmation sampling operations will take place between December 12, 2024 and December 31, 2024. If operations are expected to go past December 31, 2024, an extension request and additional C-141N will be placed."

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 415949
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/30/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 417036

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 417036
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2230526211**
Incident Name	**NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Site Name	**DL 10 15 OGOPOGO FEDERAL COM #422H**
Date Release Discovered	**10/20/2022**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,100
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.40448, -103.55576) Carmona Resources will be onsite on 01.06.2025 through 01.10.2025 to finish confirmation sampling onsite.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 417036

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 417036
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/6/2025

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

Ashton Thielke

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, October 3, 2024 12:32 PM
To: Ashton Thielke
Cc: Barnhill, Amy; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] NAPP2229333460 & NAPP2230526211 - DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022) - 90 Day Extension Request

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Ashton,

Your request for an extension for both incidents, NAPP2230526211 and NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H is approved. The new due date to submit your remediation closure report to the OCD is January 1, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Thursday, October 3, 2024 10:01 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Barnhill, Amy <ABarnhill@chevron.com>
Subject: [EXTERNAL] NAPP2229333460 & NAPP2230526211 - DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022) - 90 Day Extension Request

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

Good morning Shelly,

I appreciate your phone call to discuss the above-mentioned project details and explanation for denial.
We are requesting a 90-day extension to address the previously denied areas of “EX1 CS Southwall”, “EX2 NW CS2”, “EX2 NW CS4”, & “EX2 CS54”.
These areas will all have to be hydro-excavated due to close proximity to buried flowlines leading from the well heads onsite to a depth ranging from 4-6’ deep, or until confirmation samples are acceptable per Table 1 19.15.29.12

Once all material is removed to the best extent possible, composite confirmation floor and sidewall samples will be collected to represent no more than 400sqft (per previously approved work plan sampling variance).
Areas around the well head(s) may need to be deferred until P/A and will be delineated if applicable.
Pending your approval, completion of work and a final closure/deferral report will be submitted to the NMOCD no later than 01.01.2025.

Please let me know if have any questions!

Ashton Thielke
Senior Project Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com
Environmental Consulting Firm - Carmona Resources

CARMONA RESOURCES

Ashton Thielke

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, December 19, 2024 2:13 PM
To: Ashton Thielke
Cc: Barnhill, Amy; David Domingue; Kristy Woolsey; Dana G. Humphrey; Roy McNiven; Mike Carmona; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] NAPP2229333460 & NAPP2230526211 - DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022) - Extension Request

Good afternoon Ashton,

The extension requests for NAPP2229333460 and NAPP2230526211 DL 10 15 OGOPOGO FEDERAL COM #422H are approved. The new due date to submit your closure reports/deferral requests to the OCD is March 19, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Thursday, December 19, 2024 12:23 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Barnhill, Amy <ABarnhill@chevron.com>; David Domingue <DDomingue@onetetra.com>; Kristy Woolsey <KWoolsey@onetetra.com>; Dana G. Humphrey <dhumphrey@onetetra.com>; Roy McNiven <rmcniven@onetetra.com>; Mike Carmona <Mcarmona@carmonaresources.com>
Subject: [EXTERNAL] NAPP2229333460 & NAPP2230526211 - DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022) - Extension Request

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

Good afternoon all,

Following our meeting this morning in regard to the inconsistencies found from the denied deferral report and what was found onsite while hydro-excavating impact left in place over top of the buried flowlines, a 90-day extension is requested to complete the project.

Area of EX2 CS54 (from the deferral report):
In our meeting we confirmed via hydrovac that no buried pipeline was found on the far south side of the well pad. That area was previously referenced as EX2 CS54 in the deferral report and is currently in the process of being mechanically excavated with no issues. (see 2nd page of attachment, shaded in light blue on the map)

Area of EX2 NW CS4 (from the denied deferral report):

In Figure 4 of the denied deferral, the buried flowlines are misrepresented and depict that they travel from the north side of the well heads and then travel to the west off site. (see 1st page of attachment)
Once the remediation began on 12.11.2024, field staff confirmed that the flowlines actually traveled from the south side of the well heads and then traveled to the west off site. (see 2nd page of attachment, actual flowline marked in yellow on the map)
Produced Water (chloride) staining was found over top of the buried flowlines, directly south and southwest of the well heads.
This area is represented by EX2 NW CS4, but also travels to the west over top of the flowlines.
This area will all be hydro-excavated and will have composite confirmation sidewall and floor samples. (see 2nd page of attachment, area shaded in pink on the map)

Areas of EX2 NW CS2 & EX1 CS Southwall (from the denied deferral report):
The areas on figure 4 between EX2 NW CS2 & EX1 CS Southwall (originally deferred) have now been confirmed to contain no buried flowlines. (see 2nd page of attachment, area shaded in dark blue on the map)
Our meeting this morning discussed the addition of four (4) test trenches (T-1 through T-4), in order to confirm that remediation work previously performed removed all impact and that the figures were mislabeled. (see 2nd page of attachment)
Any contamination found in the areas of T-1 through T-4 above the most stringent closure criteria must be delineated and remediated pursuant to 19.15.29 NMAC.

Once all material is removed to the best extent possible, composite confirmation floor and sidewall samples will be collected to represent no more than 400sqft (per previously approved work plan sampling variance).
Areas around the well head(s) may need to be deferred until P/A and will be delineated if applicable.
Pending your approval, completion of work and a final closure/deferral report will be submitted to the NMOCD no later than 03.19.2025.
A copy of this email chain and the attached map will be included in the next C-141 submittal.

Please let me know if have any questions or concerns.

Thanks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com
Environmental Consulting Firm - Carmona Resources

CARMONA RESOURCES

Received by OCD: 2/12/2025 11:05:06 AM

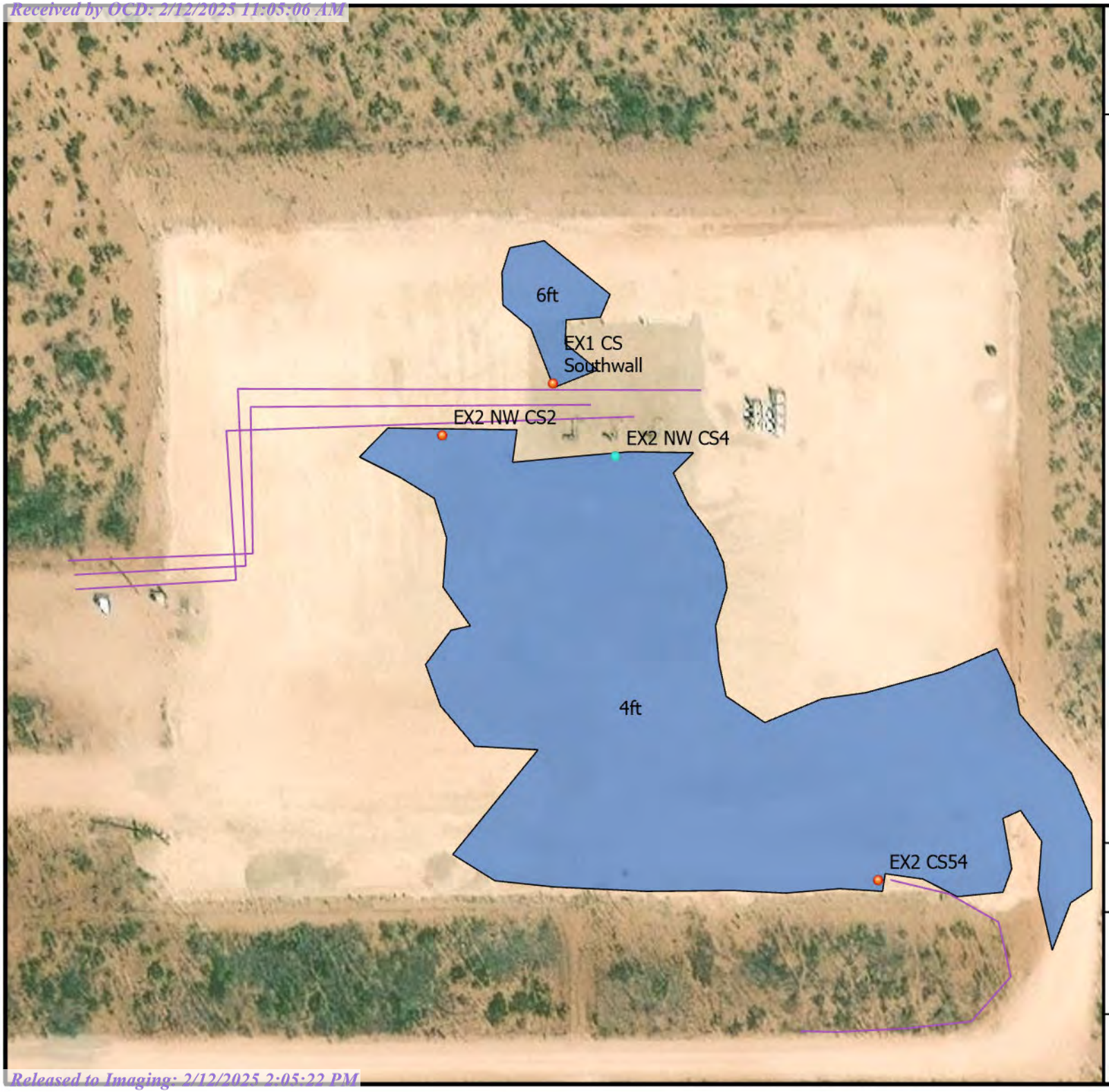


FIGURE 4
Ogopogo API 49907
Excavation & Deferral

LEGEND
- Excavation Area
- Pipeline
- Soil Sample

N

0 40 80 160
Scale: 1:1,000 Feet

JOB No. Ogopogo_env_22
DATE FIELD: 12/9/22 DRAWN JAW
DATE DRAWN: 11/6/2023 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

Released to Imaging: 2/12/2025 2:05:22 PM

T-4
EX1 CS Southwall
T-3
EX2 NW CS2
T-2
T-1
WH
WH
WH
EX2 NW CS4
EX2 CS54
Legend
Actual Buried Pipeline
Area Originally Deferred
Buried Electrical Line
Current 3.0'-3.5' Hydro-Excavation
Current 3.0'-3.5' Hydro-Excavation
Current 4.0'-4.5' Excavation
DL 10 15 OGOPOGO FEDERAL COM #422H
Hydrovac Window
Panel Fence
Previous 4.0' Excavation
Previous 6.0' Excavation
Reported Buried Flow Lines (*Do Not Exist)
Test Trench
Well Head
N
100 ft
Google Earth
Image © 2024 Airbus

APPENDIX D

CARMONA RESOURCES

Received by OCD: 2/12/2025 11:05:06 AM

Nearest Water Well

Chevron USA

Legend

- 0.50 Mile Radius
- 1.89 Miles
- 1.90 Miles
- DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)
- Groundwater Determination Bore
- USGS Water Well

DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)

101' GWDB - Drilled 2022

391.13' - Drilled 1996

Google Earth

Released to Imaging: 2/12/2025 2:05:22 PM

Image © 2024 Airbus

N

1 mi

Received by OCD: 2/12/2025 11:05:06 AM

Low Karst

Chevron USA

Legend

DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)

Low

DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)

Google Earth

Released to Imaging: 2/12/2025 2:05:22 PM

Image © 2024 Airbus

N

1 mi

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 01899 POD1		CP	LE	SE	SE	SE	08	22S	33E	632811.3	3585622.5		3061			
CP 00592 POD1		CP	ED		SW	NE	13	22S	33E	638834.0	3585015.0 *		3234	427		
CP 01724 POD1		CP	LE	SW	NW	NW	18	22S	34E	639475.4	3585260.6		3771	1172	800	372

Average Depth to Water: **800 feet**

Minimum Depth: **800 feet**

Maximum Depth: **800 feet**

Record Count: 3

UTM Filters (in meters):

Easting: 635820.09

Northing: 3586188.14

Radius: 4000

*** UTM location was derived from PLSS - see Help**

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

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- How are we doing? We want to hear from you. Take our quick survey to tell us what you think.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322325103313301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 322325103313301 22S.33E.13.23131

Lea County, New Mexico
Latitude 32°23'38.6", Longitude 103°31'33.6" NAD83
Land-surface elevation 3,519 feet above NAVD88
The depth of the well is 508 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-06-10		D	62610		3130.32	NGVD29	P	Z			A
1968-06-10		D	62611		3131.92	NAVD88	P	Z			A
1968-06-10		D	72019	387.08			P	Z			A
1970-12-04		D	62610		3132.21	NGVD29	P	Z			A
1970-12-04		D	62611		3133.81	NAVD88	P	Z			A
1970-12-04		D	72019	385.19			P	Z			A
1972-09-21		D	62610		3129.05	NGVD29	1	Z			A
1972-09-21		D	62611		3130.65	NAVD88	1	Z			A
1972-09-21		D	72019	388.35			1	Z			A
1976-12-16		D	62610		3128.80	NGVD29	1	Z			A
1976-12-16		D	62611		3130.40	NAVD88	1	Z			A
1976-12-16		D	72019	388.60			1	Z			A
1981-03-10		D	62610		3127.57	NGVD29	1	Z			A
1981-03-10		D	62611		3129.17	NAVD88	1	Z			A
1981-03-10		D	72019	389.83			1	Z			A
1986-04-10		D	62610		3134.26	NGVD29	1	Z			A
1986-04-10		D	62611		3135.86	NAVD88	1	Z			A
1986-04-10		D	72019	383.14			1	Z			A
1991-05-03		D	62610		3127.12	NGVD29	P	Z			A
1991-05-03		D	62611		3128.72	NAVD88	P	Z			A
1991-05-03		D	72019	390.28			P	Z			A
1996-02-20		D	62610		3126.27	NGVD29	1	S			A
1996-02-20		D	62611		3127.87	NAVD88	1	S			A
1996-02-20		D	72019	391.13			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-10-10 12:36:50 EDT
0.31 0.22 nadww01

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (TW-1)		CP-1899

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Marathon Oil	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
4111 S Tidwell Rd.	Carlsbad	NM	88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	23	59.07	N
	LONGITUDE	103	35	16.17	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

SE SE SE Sec. 09 T22S R33E, NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2/9/2022	2/24/2022	temporary casing	±101	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DATE STATIC MEASURED: 2/24/22, 3/8/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	101	±8.5	Boring	--	--	--	--

OSE DII MAR 11 2022 AM 8:47

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	CP-1899	POD NO.	POD1	TRN NO.	717713
LOCATION	SESESE 8 22S 33E			WELL TAG ID NO.	NA

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	9	9	Sand, Fine-grained, poorly graded with caliche, Brown	Y ✓ N	
9	19	10	Sand, Fine-grained, poorly graded with caliche, Tan	Y ✓ N	
19	34	15	Sand, Fine-grained, poorly graded with sub-angular gravel, Tan	Y ✓ N	
34	44	10	Sand, Fine-grained, poorly graded, Tan	Y ✓ N	
44	49	5	Sand, Fine-grained, poorly graded with sub-angular gravel, Brown	Y ✓ N	
49	101	52	Clay, with sand ,Dry, Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and he soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips ten feet below ground surface to surface.

OSE DII MAR 11 2022 AM8:51

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 3/10/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-1899	POD NO. POD1	TRN NO. 717713	
LOCATION SESESE 8 22S 33E		WELL TAG ID NO. NA	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 717713
File Nbr: CP 01899
Well File Nbr: CP 01899 POD1

Mar. 22, 2022

MELODIE SANJARI
MARATHON OIL
4111 S TIDWELL RD
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 01/31/2022.

The Well Record was received in this office on 03/11/2022, stating that it had been completed on 02/24/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/31/2023.

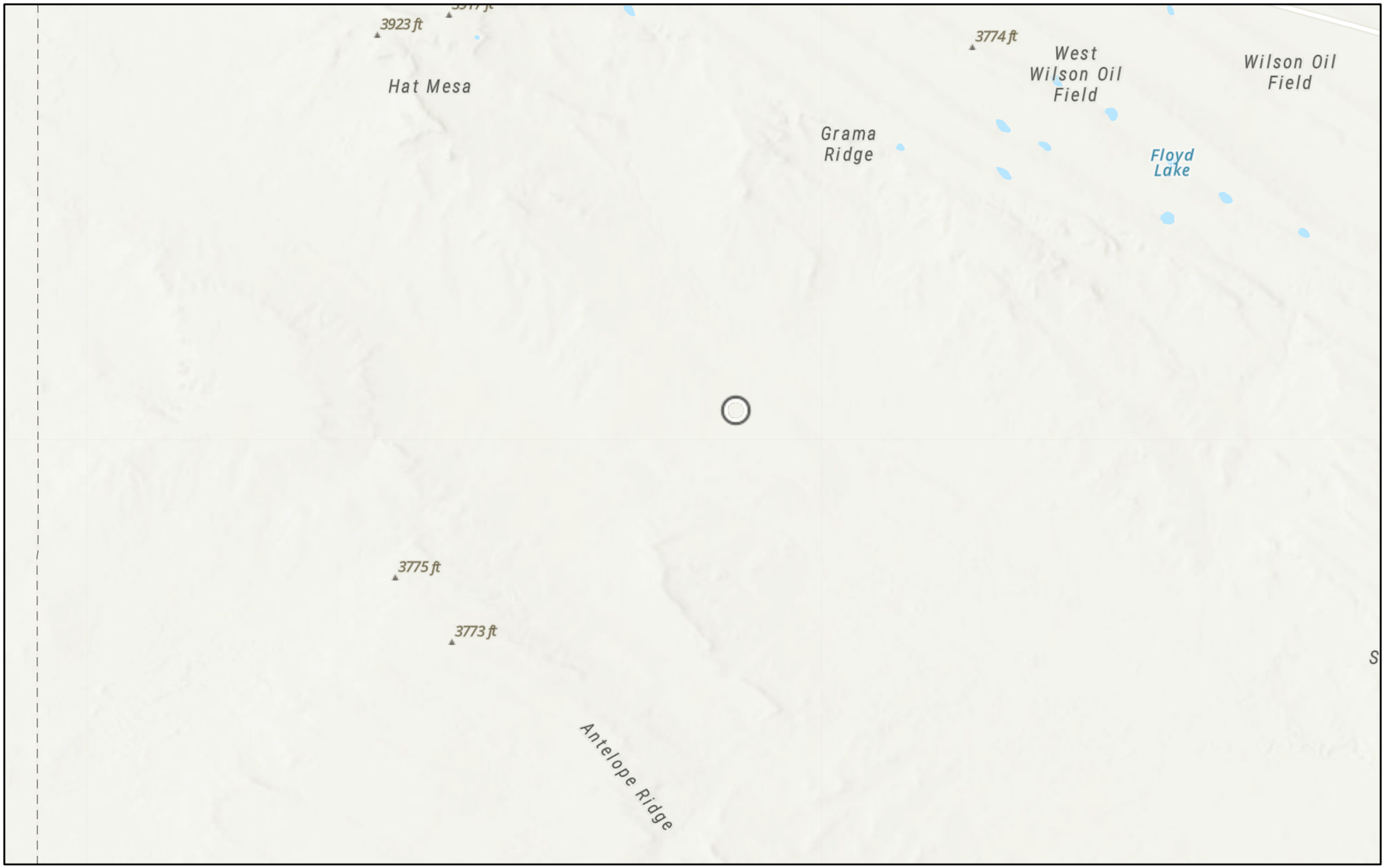
If you have any questions, please feel free to contact us.

Sincerely,

Megen Telles
(575)622-6521

drywell

DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)



10/10/2024

World Hillshade

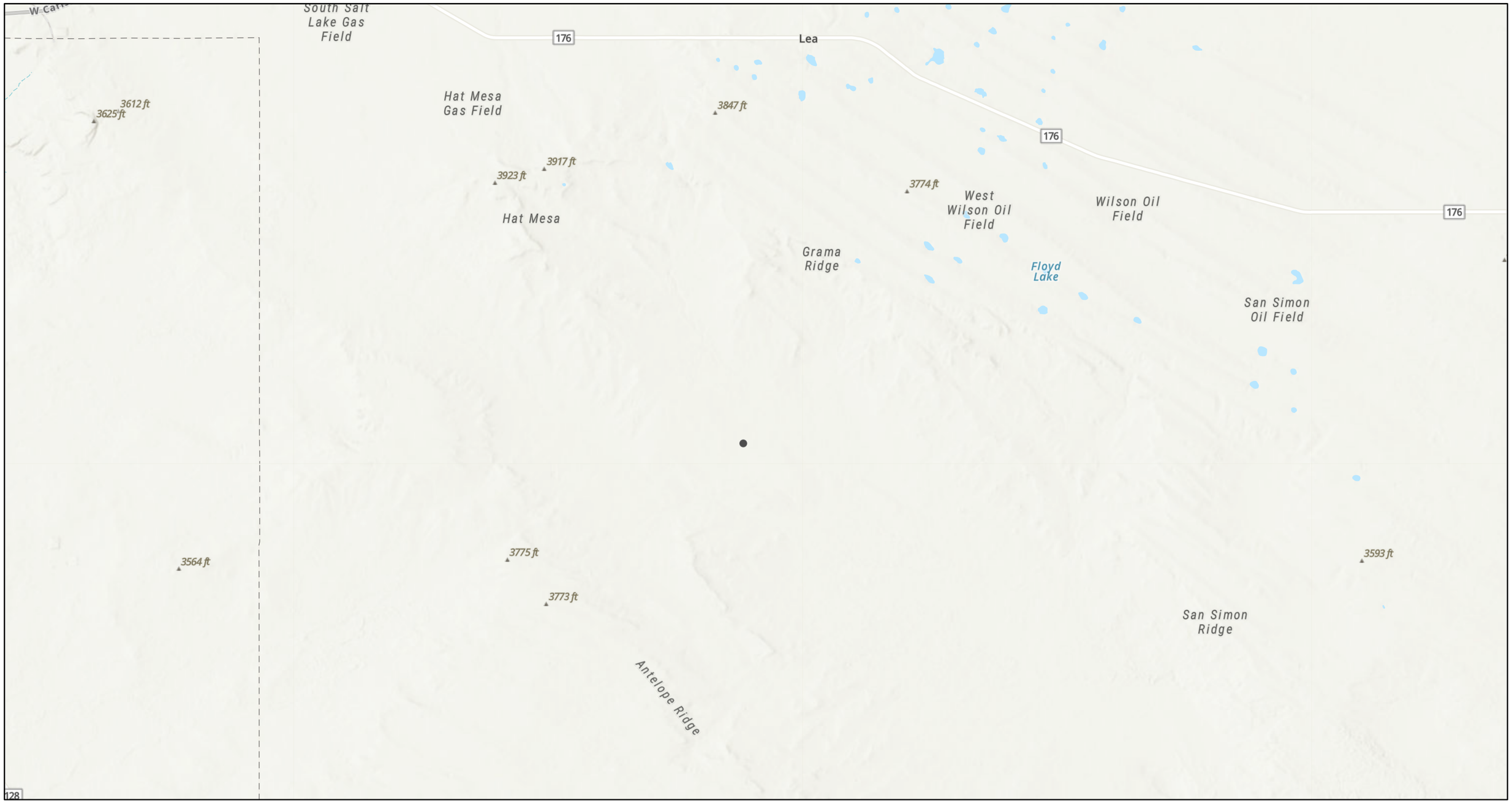
1:144,448

0 1 2 4 mi

0 1.5 3 6 km

Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS,

DL 10 15 OGOPOGO FEDERAL COM #422H (10.16.2022 & 10.20.2022)



10/10/2024, 11:32:11 AM

1:144,448

0 1.5 3 6 mi

0 2.5 5 10 km

Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 12/26/2024 4:03:08 PM

JOB DESCRIPTION

Ogopogo Federal Com #422H
Eddy Co., NM

JOB NUMBER

880-52526-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

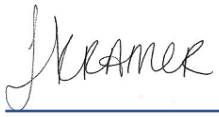
Eurofins Midland

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
12/26/2024 4:03:08 PM

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

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Laboratory Job ID: 880-52526-1
SDG: Eddy Co., NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Ogopogo Federal Com #422H

Job ID: 880-52526-1

Job ID: 880-52526-1 Eurofins Midland

Job Narrative
880-52526-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/20/2024 10:10 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 4.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-52526-1), T-1 (1.5') (880-52526-2), T-1 (2.0') (880-52526-3), T-1 (3.0') (880-52526-4), T-2 (0-1') (880-52526-5), T-2 (1.5') (880-52526-6), T-2 (2.0') (880-52526-7), T-2 (3.0') (880-52526-8), T-3 (0-1') (880-52526-9), T-3 (1.5') (880-52526-10), T-3 (2.0') (880-52526-11), T-3 (3.0') (880-52526-12), T-4 (0-1') (880-52526-13), T-4 (1.5') (880-52526-14), T-4 (2.0') (880-52526-15) and T-4 (3.0') (880-52526-16).

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98721 and analytical batch 880-98591 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.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98499 and analytical batch 880-98525 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.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-1 (0-1')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 15:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 15:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 15:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 10:36	12/20/24 15:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 15:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 10:36	12/20/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 10:36*	*12/20/24 15:51*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/20/24 10:36*	*12/20/24 15:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/20/24 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/23/24 15:01	12/23/24 22:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/23/24 15:01	12/23/24 22:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/23/24 15:01*	*12/23/24 22:13*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/23/24 15:01*	*12/23/24 22:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		9.96		mg/Kg			12/21/24 17:44	1

Client Sample ID: T-1 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 10:36	12/20/24 16:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 10:36	12/20/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:12*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-1 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/20/24 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:14*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.2**		9.92		mg/Kg			12/21/24 18:09	1

Client Sample ID: T-1 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 10:36	12/20/24 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 16:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 10:36	12/20/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/23/24 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/23/24 23:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/23/24 23:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-1 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/23/24 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:35*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.2**		9.98		mg/Kg			12/21/24 18:17	1

Client Sample ID: T-1 (3.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 16:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 16:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 16:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 10:36	12/20/24 16:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 16:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 10:36	12/20/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:53*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/20/24 10:36*	*12/20/24 16:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/23/24 23:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:56*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/23/24 15:01*	*12/23/24 23:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.9**		9.94		mg/Kg			12/21/24 18:25	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-2 (0-1')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 17:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 17:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 10:36	12/20/24 17:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 17:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 10:36	12/20/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:13*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/20/24 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/24/24 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 00:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 00:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:16*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**		10.0		mg/Kg			12/21/24 18:33	1

Client Sample ID: T-2 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 17:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 17:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 17:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 10:36	12/20/24 17:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:36	12/20/24 17:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 10:36	12/20/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:34*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:34*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-2 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/20/24 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/24/24 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:36*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.6**		10.1		mg/Kg			12/21/24 18:58	1

Client Sample ID: T-2 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 17:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 17:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 10:36	12/20/24 17:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 17:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 10:36	12/20/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:54*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 10:36*	*12/20/24 17:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 00:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-2 (2.0')

Lab Sample ID: 880-52526-7
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:57*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/23/24 15:01*	*12/24/24 00:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.0**		9.96		mg/Kg			12/21/24 19:06	1

Client Sample ID: T-2 (3.0')

Lab Sample ID: 880-52526-8
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 10:36	12/20/24 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:36	12/20/24 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 10:36	12/20/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/24/24 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 01:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 01:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:18*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.5**		9.94		mg/Kg			12/21/24 19:14	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-3 (0-1')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 18:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 18:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 18:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 10:36	12/20/24 18:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:36	12/20/24 18:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 10:36	12/20/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:35*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/20/24 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 01:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 01:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:38*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5420**		99.8		mg/Kg			12/21/24 19:22	10

Client Sample ID: T-3 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 18:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 10:36	12/20/24 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:36	12/20/24 18:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 10:36	12/20/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 10:36*	*12/20/24 18:56*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-3 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/20/24 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/24/24 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 01:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 01:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/23/24 15:01*	*12/24/24 01:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.7**		10.0		mg/Kg			12/21/24 19:30	1

Client Sample ID: T-3 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 10:41	12/20/24 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 10:41	12/20/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 10:41*	*12/20/24 16:26*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/20/24 10:41*	*12/20/24 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/20/24 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 02:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 02:40	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-3 (2.0')

Lab Sample ID: 880-52526-11
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/23/24 15:01*	*12/24/24 02:40*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/23/24 15:01*	*12/24/24 02:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.4**	**F1**	10.0		mg/Kg			12/21/24 19:39	1

Client Sample ID: T-3 (3.0')

Lab Sample ID: 880-52526-12
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 10:41	12/20/24 16:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 16:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 10:41	12/20/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/20/24 10:41*	*12/20/24 16:46*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/20/24 10:41*	*12/20/24 16:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/24/24 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 03:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 03:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/23/24 15:01	12/24/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:00*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		9.90		mg/Kg			12/21/24 20:03	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-4 (0-1')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:41	12/20/24 17:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:41	12/20/24 17:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:41	12/20/24 17:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 10:41	12/20/24 17:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 10:41	12/20/24 17:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 10:41	12/20/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:07*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**557**		49.8		mg/Kg			12/24/24 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 03:20	1
Diesel Range Organics (Over C10-C28)	**171**		49.8		mg/Kg		12/23/24 15:01	12/24/24 03:20	1
Oil Range Organics (Over C28-C36)	**386**		49.8		mg/Kg		12/23/24 15:01	12/24/24 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:20*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.3**		9.94		mg/Kg			12/21/24 20:11	1

Client Sample ID: T-4 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:41	12/20/24 17:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:41	12/20/24 17:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:41	12/20/24 17:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 10:41	12/20/24 17:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 10:41	12/20/24 17:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 10:41	12/20/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:27*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-4 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/20/24 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/24/24 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/23/24 15:01	12/24/24 03:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/23/24 15:01	12/24/24 03:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/23/24 15:01	12/24/24 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:41*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/23/24 15:01*	*12/24/24 03:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**442**		9.90		mg/Kg			12/21/24 20:36	1

Client Sample ID: T-4 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:41	12/20/24 17:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:41	12/20/24 17:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:41	12/20/24 17:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 10:41	12/20/24 17:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 10:41	12/20/24 17:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 10:41	12/20/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:48*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/20/24 10:41*	*12/20/24 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/20/24 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/24/24 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 04:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 04:02	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-4 (2.0')

Lab Sample ID: 880-52526-15
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/23/24 15:01*	*12/24/24 04:02*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/23/24 15:01*	*12/24/24 04:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**393**		9.94		mg/Kg			12/21/24 20:44	1

Client Sample ID: T-4 (3.0')

Lab Sample ID: 880-52526-16
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 18:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 18:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 18:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 10:41	12/20/24 18:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 10:41	12/20/24 18:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 10:41	12/20/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/20/24 10:41*	*12/20/24 18:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/20/24 10:41*	*12/20/24 18:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/24/24 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/23/24 15:01	12/24/24 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/23/24 15:01*	*12/24/24 04:29*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/23/24 15:01*	*12/24/24 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**265**		10.1		mg/Kg			12/21/24 03:39	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-52526-1	T-1 (0-1')	97	88
880-52526-2	T-1 (1.5')	84	94
880-52526-3	T-1 (2.0')	84	93
880-52526-4	T-1 (3.0')	95	88
880-52526-5	T-2 (0-1')	85	96
880-52526-6	T-2 (1.5')	85	93
880-52526-7	T-2 (2.0')	85	96
880-52526-8	T-2 (3.0')	86	96
880-52526-9	T-3 (0-1')	87	95
880-52526-10	T-3 (1.5')	86	97
880-52526-11	T-3 (2.0')	97	106
880-52526-12	T-3 (3.0')	99	106
880-52526-13	T-4 (0-1')	103	110
880-52526-14	T-4 (1.5')	99	105
880-52526-15	T-4 (2.0')	97	104
880-52526-16	T-4 (3.0')	101	104
890-7487-A-1-E MS	Matrix Spike	95	102
890-7487-A-1-F MSD	Matrix Spike Duplicate	100	102
890-7494-A-1-C MS	Matrix Spike	88	108
890-7494-A-1-D MSD	Matrix Spike Duplicate	101	106
LCS 880-98429/1-A	Lab Control Sample	103	96
LCS 880-98433/1-A	Lab Control Sample	96	103
LCSD 880-98429/2-A	Lab Control Sample Dup	85	105
LCSD 880-98433/2-A	Lab Control Sample Dup	94	103
MB 880-98429/5-A	Method Blank	79	91
MB 880-98433/5-A	Method Blank	98	96

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52526-1	T-1 (0-1')	74	80
880-52526-1 MS	T-1 (0-1')	78	74
880-52526-1 MSD	T-1 (0-1')	80	75
880-52526-2	T-1 (1.5')	92	101
880-52526-3	T-1 (2.0')	77	82
880-52526-4	T-1 (3.0')	73	77
880-52526-5	T-2 (0-1')	82	87
880-52526-6	T-2 (1.5')	77	83
880-52526-7	T-2 (2.0')	73	79
880-52526-8	T-2 (3.0')	82	88
880-52526-9	T-3 (0-1')	77	82
880-52526-10	T-3 (1.5')	76	82
880-52526-11	T-3 (2.0')	72	78

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-52526-12	T-3 (3.0')	77	83								
880-52526-13	T-4 (0-1')	75	78								
880-52526-14	T-4 (1.5')	73	80								
880-52526-15	T-4 (2.0')	89	98								
880-52526-16	T-4 (3.0')	79	87								
LCS 880-98721/2-A	Lab Control Sample	78	75								
LCSD 880-98721/3-A	Lab Control Sample Dup	91	87								
MB 880-98721/1-A	Method Blank	77	85								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98429/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:21	12/20/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/24 08:21*	*12/20/24 11:02*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 08:21*	*12/20/24 11:02*	*1*

Lab Sample ID: LCS 880-98429/1-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98429

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09483		mg/Kg		95	70 - 130		
Toluene			0.100	0.09418		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.1041		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2038		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1006		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-98429/2-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98429

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1013		mg/Kg		101	70 - 130	7	35
Toluene			0.100	0.09665		mg/Kg		97	70 - 130	3	35
Ethylbenzene			0.100	0.08580		mg/Kg		86	70 - 130	19	35
m-Xylene & p-Xylene			0.200	0.1694		mg/Kg		85	70 - 130	18	35
o-Xylene			0.100	0.08283		mg/Kg		83	70 - 130	19	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7494-A-1-C MS
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1025		mg/Kg		103	70 - 130		
Toluene	<0.00199	U	0.0996	0.09712		mg/Kg		98	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

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

Lab Sample ID: 890-7494-A-1-C MS
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08525		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1693		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08191		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-7494-A-1-D MSD
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1051		mg/Kg		104	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.09885		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.08356		mg/Kg		83	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1680		mg/Kg		83	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.09857		mg/Kg		98	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-98433/5-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/24 08:27*	*12/20/24 11:02*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 08:27*	*12/20/24 11:02*	*1*

Lab Sample ID: LCS 880-98433/1-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.09371		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09410		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

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

Lab Sample ID: LCS 880-98433/1-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98433

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09536		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-98433/2-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98433

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1048		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.09817		mg/Kg		98	70 - 130	5	35
Ethylbenzene			0.100	0.09886		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1969		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09974		mg/Kg		100	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7487-A-1-E MS
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1080		mg/Kg		108	70 - 130		
Toluene	<0.00199	U	0.0996	0.1014		mg/Kg		102	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1025		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2038		mg/Kg		102	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1023		mg/Kg		103	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7487-A-1-F MSD
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1129		mg/Kg		112	70 - 130	4	35
Toluene	<0.00199	U	0.101	0.1066		mg/Kg		106	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.1080		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2157		mg/Kg		107	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.1082		mg/Kg		107	70 - 130	6	35

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

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

Lab Sample ID: 890-7487-A-1-F MSD
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98433

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-98721/1-A
Matrix: Solid
Analysis Batch: 98591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 21:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 21:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/23/24 21:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	12/23/24 15:01	12/23/24 21:11	1
o-Terphenyl	85		70 - 130	12/23/24 15:01	12/23/24 21:11	1

Lab Sample ID: LCS 880-98721/2-A
Matrix: Solid
Analysis Batch: 98591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	721.6		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	822.8		mg/Kg		82	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: LCSD 880-98721/3-A
Matrix: Solid
Analysis Batch: 98591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	769.0		mg/Kg		77	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	893.6		mg/Kg		89	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

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

Lab Sample ID: 880-52526-1 MS
Matrix: Solid
Analysis Batch: 98591

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 98721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	677.2	F1	mg/Kg		68	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	636.6	F1	mg/Kg		64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 880-52526-1 MSD
Matrix: Solid
Analysis Batch: 98591

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 98721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	704.3		mg/Kg		71	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	653.0	F1	mg/Kg		65	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98499/1-A
Matrix: Solid
Analysis Batch: 98525

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 17:20	1

Lab Sample ID: LCS 880-98499/2-A
Matrix: Solid
Analysis Batch: 98525

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-98499/3-A
Matrix: Solid
Analysis Batch: 98525

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	273.7		mg/Kg		109	90 - 110	9	20

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-52526-1 MS — **Client Sample ID: T-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	132		249	370.8		mg/Kg		96	90 - 110		

Lab Sample ID: 880-52526-1 MSD — **Client Sample ID: T-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	132		249	404.4		mg/Kg		109	90 - 110	9	20

Lab Sample ID: 880-52526-11 MS — **Client Sample ID: T-3 (2.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	35.4	F1	251	345.5	F1	mg/Kg		124	90 - 110		

Lab Sample ID: 880-52526-11 MSD — **Client Sample ID: T-3 (2.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	35.4	F1	251	383.2	F1	mg/Kg		139	90 - 110	10	20

Lab Sample ID: MB 880-98524/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 03:21	1

Lab Sample ID: LCS 880-98524/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

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

Lab Sample ID: LCSD 880-98524/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52526-16 MS — **Client Sample ID: T-4 (3.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	265		252	523.5		mg/Kg		103	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52526-16 MSD
Matrix: Solid
Analysis Batch: 98529

Client Sample ID: T-4 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	265		252	524.1		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	8021B	98429
880-52526-2	T-1 (1.5')	Total/NA	Solid	8021B	98429
880-52526-3	T-1 (2.0')	Total/NA	Solid	8021B	98429
880-52526-4	T-1 (3.0')	Total/NA	Solid	8021B	98429
880-52526-5	T-2 (0-1')	Total/NA	Solid	8021B	98429
880-52526-6	T-2 (1.5')	Total/NA	Solid	8021B	98429
880-52526-7	T-2 (2.0')	Total/NA	Solid	8021B	98429
880-52526-8	T-2 (3.0')	Total/NA	Solid	8021B	98429
880-52526-9	T-3 (0-1')	Total/NA	Solid	8021B	98429
880-52526-10	T-3 (1.5')	Total/NA	Solid	8021B	98429
MB 880-98429/5-A	Method Blank	Total/NA	Solid	8021B	98429
LCS 880-98429/1-A	Lab Control Sample	Total/NA	Solid	8021B	98429
LCSD 880-98429/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98429
890-7494-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	98429
890-7494-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98429

Analysis Batch: 98351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-11	T-3 (2.0')	Total/NA	Solid	8021B	98433
880-52526-12	T-3 (3.0')	Total/NA	Solid	8021B	98433
880-52526-13	T-4 (0-1')	Total/NA	Solid	8021B	98433
880-52526-14	T-4 (1.5')	Total/NA	Solid	8021B	98433
880-52526-15	T-4 (2.0')	Total/NA	Solid	8021B	98433
880-52526-16	T-4 (3.0')	Total/NA	Solid	8021B	98433
MB 880-98433/5-A	Method Blank	Total/NA	Solid	8021B	98433
LCS 880-98433/1-A	Lab Control Sample	Total/NA	Solid	8021B	98433
LCSD 880-98433/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98433
890-7487-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	98433
890-7487-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98433

Prep Batch: 98429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	5035	
880-52526-2	T-1 (1.5')	Total/NA	Solid	5035	
880-52526-3	T-1 (2.0')	Total/NA	Solid	5035	
880-52526-4	T-1 (3.0')	Total/NA	Solid	5035	
880-52526-5	T-2 (0-1')	Total/NA	Solid	5035	
880-52526-6	T-2 (1.5')	Total/NA	Solid	5035	
880-52526-7	T-2 (2.0')	Total/NA	Solid	5035	
880-52526-8	T-2 (3.0')	Total/NA	Solid	5035	
880-52526-9	T-3 (0-1')	Total/NA	Solid	5035	
880-52526-10	T-3 (1.5')	Total/NA	Solid	5035	
MB 880-98429/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98429/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98429/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7494-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7494-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 98433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-11	T-3 (2.0')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

GC VOA (Continued)

Prep Batch: 98433 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-12	T-3 (3.0')	Total/NA	Solid	5035	
880-52526-13	T-4 (0-1')	Total/NA	Solid	5035	
880-52526-14	T-4 (1.5')	Total/NA	Solid	5035	
880-52526-15	T-4 (2.0')	Total/NA	Solid	5035	
880-52526-16	T-4 (3.0')	Total/NA	Solid	5035	
MB 880-98433/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98433/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98433/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7487-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-7487-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-52526-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-52526-3	T-1 (2.0')	Total/NA	Solid	Total BTEX	
880-52526-4	T-1 (3.0')	Total/NA	Solid	Total BTEX	
880-52526-5	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-52526-6	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-52526-7	T-2 (2.0')	Total/NA	Solid	Total BTEX	
880-52526-8	T-2 (3.0')	Total/NA	Solid	Total BTEX	
880-52526-9	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-52526-10	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-52526-11	T-3 (2.0')	Total/NA	Solid	Total BTEX	
880-52526-12	T-3 (3.0')	Total/NA	Solid	Total BTEX	
880-52526-13	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-52526-14	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-52526-15	T-4 (2.0')	Total/NA	Solid	Total BTEX	
880-52526-16	T-4 (3.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 98591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	8015B NM	98721
880-52526-2	T-1 (1.5')	Total/NA	Solid	8015B NM	98721
880-52526-3	T-1 (2.0')	Total/NA	Solid	8015B NM	98721
880-52526-4	T-1 (3.0')	Total/NA	Solid	8015B NM	98721
880-52526-5	T-2 (0-1')	Total/NA	Solid	8015B NM	98721
880-52526-6	T-2 (1.5')	Total/NA	Solid	8015B NM	98721
880-52526-7	T-2 (2.0')	Total/NA	Solid	8015B NM	98721
880-52526-8	T-2 (3.0')	Total/NA	Solid	8015B NM	98721
880-52526-9	T-3 (0-1')	Total/NA	Solid	8015B NM	98721
880-52526-10	T-3 (1.5')	Total/NA	Solid	8015B NM	98721
880-52526-11	T-3 (2.0')	Total/NA	Solid	8015B NM	98721
880-52526-12	T-3 (3.0')	Total/NA	Solid	8015B NM	98721
880-52526-13	T-4 (0-1')	Total/NA	Solid	8015B NM	98721
880-52526-14	T-4 (1.5')	Total/NA	Solid	8015B NM	98721
880-52526-15	T-4 (2.0')	Total/NA	Solid	8015B NM	98721
880-52526-16	T-4 (3.0')	Total/NA	Solid	8015B NM	98721
MB 880-98721/1-A	Method Blank	Total/NA	Solid	8015B NM	98721

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

GC Semi VOA (Continued)

Analysis Batch: 98591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-98721/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98721
LCSD 880-98721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98721
880-52526-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	98721
880-52526-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	98721

Prep Batch: 98721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52526-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-52526-3	T-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-52526-4	T-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-52526-5	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-52526-6	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-52526-7	T-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-52526-8	T-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-52526-9	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-52526-10	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-52526-11	T-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-52526-12	T-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-52526-13	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-52526-14	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-52526-15	T-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-52526-16	T-4 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-98721/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98721/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52526-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52526-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-52526-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-52526-3	T-1 (2.0')	Total/NA	Solid	8015 NM	
880-52526-4	T-1 (3.0')	Total/NA	Solid	8015 NM	
880-52526-5	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-52526-6	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-52526-7	T-2 (2.0')	Total/NA	Solid	8015 NM	
880-52526-8	T-2 (3.0')	Total/NA	Solid	8015 NM	
880-52526-9	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-52526-10	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-52526-11	T-3 (2.0')	Total/NA	Solid	8015 NM	
880-52526-12	T-3 (3.0')	Total/NA	Solid	8015 NM	
880-52526-13	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-52526-14	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-52526-15	T-4 (2.0')	Total/NA	Solid	8015 NM	
880-52526-16	T-4 (3.0')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

HPLC/IC

Leach Batch: 98499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-52526-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-52526-3	T-1 (2.0')	Soluble	Solid	DI Leach	
880-52526-4	T-1 (3.0')	Soluble	Solid	DI Leach	
880-52526-5	T-2 (0-1')	Soluble	Solid	DI Leach	
880-52526-6	T-2 (1.5')	Soluble	Solid	DI Leach	
880-52526-7	T-2 (2.0')	Soluble	Solid	DI Leach	
880-52526-8	T-2 (3.0')	Soluble	Solid	DI Leach	
880-52526-9	T-3 (0-1')	Soluble	Solid	DI Leach	
880-52526-10	T-3 (1.5')	Soluble	Solid	DI Leach	
880-52526-11	T-3 (2.0')	Soluble	Solid	DI Leach	
880-52526-12	T-3 (3.0')	Soluble	Solid	DI Leach	
880-52526-13	T-4 (0-1')	Soluble	Solid	DI Leach	
880-52526-14	T-4 (1.5')	Soluble	Solid	DI Leach	
880-52526-15	T-4 (2.0')	Soluble	Solid	DI Leach	
MB 880-98499/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98499/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98499/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52526-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-52526-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-52526-11 MS	T-3 (2.0')	Soluble	Solid	DI Leach	
880-52526-11 MSD	T-3 (2.0')	Soluble	Solid	DI Leach	

Leach Batch: 98524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-16	T-4 (3.0')	Soluble	Solid	DI Leach	
MB 880-98524/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98524/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98524/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52526-16 MS	T-4 (3.0')	Soluble	Solid	DI Leach	
880-52526-16 MSD	T-4 (3.0')	Soluble	Solid	DI Leach	

Analysis Batch: 98525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-1	T-1 (0-1')	Soluble	Solid	300.0	98499
880-52526-2	T-1 (1.5')	Soluble	Solid	300.0	98499
880-52526-3	T-1 (2.0')	Soluble	Solid	300.0	98499
880-52526-4	T-1 (3.0')	Soluble	Solid	300.0	98499
880-52526-5	T-2 (0-1')	Soluble	Solid	300.0	98499
880-52526-6	T-2 (1.5')	Soluble	Solid	300.0	98499
880-52526-7	T-2 (2.0')	Soluble	Solid	300.0	98499
880-52526-8	T-2 (3.0')	Soluble	Solid	300.0	98499
880-52526-9	T-3 (0-1')	Soluble	Solid	300.0	98499
880-52526-10	T-3 (1.5')	Soluble	Solid	300.0	98499
880-52526-11	T-3 (2.0')	Soluble	Solid	300.0	98499
880-52526-12	T-3 (3.0')	Soluble	Solid	300.0	98499
880-52526-13	T-4 (0-1')	Soluble	Solid	300.0	98499
880-52526-14	T-4 (1.5')	Soluble	Solid	300.0	98499
880-52526-15	T-4 (2.0')	Soluble	Solid	300.0	98499
MB 880-98499/1-A	Method Blank	Soluble	Solid	300.0	98499
LCS 880-98499/2-A	Lab Control Sample	Soluble	Solid	300.0	98499

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

HPLC/IC (Continued)

Analysis Batch: 98525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98499/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98499
880-52526-1 MS	T-1 (0-1')	Soluble	Solid	300.0	98499
880-52526-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	98499
880-52526-11 MS	T-3 (2.0')	Soluble	Solid	300.0	98499
880-52526-11 MSD	T-3 (2.0')	Soluble	Solid	300.0	98499

Analysis Batch: 98529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52526-16	T-4 (3.0')	Soluble	Solid	300.0	98524
MB 880-98524/1-A	Method Blank	Soluble	Solid	300.0	98524
LCS 880-98524/2-A	Lab Control Sample	Soluble	Solid	300.0	98524
LCSD 880-98524/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98524
880-52526-16 MS	T-4 (3.0')	Soluble	Solid	300.0	98524
880-52526-16 MSD	T-4 (3.0')	Soluble	Solid	300.0	98524

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-1 (0-1')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 15:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 15:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/23/24 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/23/24 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 17:44	CH	EET MID

Client Sample ID: T-1 (1.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 16:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/23/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/23/24 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 18:09	CH	EET MID

Client Sample ID: T-1 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/23/24 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/23/24 23:35	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 18:17	CH	EET MID

Client Sample ID: T-1 (3.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 16:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 16:53	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-1 (3.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98800	12/23/24 23:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/23/24 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 18:25	CH	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 00:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 00:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 18:33	CH	EET MID

Client Sample ID: T-2 (1.5')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 00:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 00:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 18:58	CH	EET MID

Client Sample ID: T-2 (2.0')
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 00:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 00:57	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-2 (2.0')

Lab Sample ID: 880-52526-7
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 19:06	CH	EET MID

Client Sample ID: T-2 (3.0')

Lab Sample ID: 880-52526-8
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 18:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 01:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 01:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 19:14	CH	EET MID

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-52526-9
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 18:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 01:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 01:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	98525	12/21/24 19:22	CH	EET MID

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-52526-10
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98429	12/20/24 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 18:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 01:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 19:30	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-3 (2.0')

Lab Sample ID: 880-52526-11
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 02:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 02:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 19:39	CH	EET MID

Client Sample ID: T-3 (3.0')

Lab Sample ID: 880-52526-12
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 03:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 03:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 20:03	CH	EET MID

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-52526-13
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 20:11	CH	EET MID

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-52526-14
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:27	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Client Sample ID: T-4 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98800	12/24/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 03:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 20:36	CH	EET MID

Client Sample ID: T-4 (2.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 04:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 04:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98499	12/20/24 15:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98525	12/21/24 20:44	CH	EET MID

Client Sample ID: T-4 (3.0')

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 10:10

Lab Sample ID: 880-52526-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98433	12/20/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98749	12/20/24 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98800	12/24/24 04:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 04:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	98524	12/20/24 15:32	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98529	12/21/24 03:39	CH	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
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: Ogopogo Federal Com #422H

Job ID: 880-52526-1
SDG: Eddy Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52526-1	T-1 (0-1')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-2	T-1 (1.5')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-3	T-1 (2.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-4	T-1 (3.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-5	T-2 (0-1')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-6	T-2 (1.5')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-7	T-2 (2.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-8	T-2 (3.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-9	T-3 (0-1')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-10	T-3 (1.5')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-11	T-3 (2.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-12	T-3 (3.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-13	T-4 (0-1')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-14	T-4 (1.5')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-15	T-4 (2.0')	Solid	12/20/24 00:00	12/20/24 10:10
880-52526-16	T-4 (3.0')	Solid	12/20/24 00:00	12/20/24 10:10

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Chain of Custody

880-52526 Chain of Custody

12/26/2024

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Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	48 Hour
Sampler's Name:	GPJ	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR5
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	4.8

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
T-1 (0-1')	12/20/2024		X		G	1			X	X	X		
T-1 (1.5')	12/20/2024		X		G	1			X	X	X		
T-1 (2.0')	12/20/2024		X		G	1			X	X	X		
T-1 (3.0')	12/20/2024		X		G	1			X	X	X		
T-2 (0-1')	12/20/2024		X		G	1			X	X	X		
T-2 (1.5')	12/20/2024		X		G	1			X	X	X		
T-2 (2.0')	12/20/2024		X		G	1			X	X	X		
T-2 (3.0')	12/20/2024		X		G	1			X	X	X		
T-3 (0-1')	12/20/2024		X		G	1			X	X	X		
T-3 (1.5')	12/20/2024		X		G	1			X	X	X		

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/20 1300	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Page 125 of 624

Chain of Custody

Work Order No: 526

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date:	48 Hour
Sampler's Name:	GPJ	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No		Thermometer ID:	
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
T-3 (2.0')	12/11/2024		X		G	1		X	X	X		
T-3 (3.0')	12/11/2024		X		G	1		X	X	X		
T-4 (0-1')	12/11/2024		X		G	1		X	X	X		
T-4 (1.5')	12/11/2024		X		G	1		X	X	X		
T-4 (2.0')	12/11/2024		X		G	1		X	X	X		
T-4 (2.5')	12/11/2024		X		G	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/20 1010	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

12/26/2024

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52526-1
SDG Number: Eddy Co., NM

Login Number: 52526
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 12/27/2024 12:28:50 PM

JOB DESCRIPTION

OGOPOGP FEDERAL COM #422H
2543

JOB NUMBER

880-52591-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

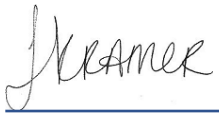
Eurofins Midland

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



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12/27/2024 12:28:50 PM

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

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Laboratory Job ID: 880-52591-1
SDG: 2543

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-52591-1
Project/Site: OGOPOGP FEDERAL COM #422H SDG: 2543

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-52591-1
Project: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1 Eurofins Midland

Job Narrative
880-52591-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/23/2024 12:40 PM. 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 2.9°C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-2 (1.5') (880-52591-6). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-98692 and analytical batch 880-98598 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-98818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-98818 and analytical batch 880-98811 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and were within the control limits for the laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (1.5') (880-52591-6) and (890-7514-A-1-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98818 and analytical batch 880-98811 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.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98818 and analytical batch 880-98811 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-1 (1.5') (880-52591-5) and (LCSD 880-98818/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98771 and analytical batch 880-98813 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98771 and analytical batch 880-98813 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.

Case Narrative

Client: Carmona Resources Job ID: 880-52591-1
Project: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98813/21).

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-52591-1
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 10:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 10:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 10:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 13:46	12/24/24 10:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 10:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 13:46	12/24/24 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/24/24 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 22:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/26/24 07:53*	*12/26/24 22:09*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/26/24 07:53*	*12/26/24 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		9.90		mg/Kg			12/23/24 15:49	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-52591-2
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 10:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 10:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 10:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 13:46	12/24/24 10:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 10:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 13:46	12/24/24 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:38*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:38*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-52591-2
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/24/24 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/26/24 07:53*	*12/26/24 22:26*	*1*
o-Terphenyl	*85*		*70 - 130*	*12/26/24 07:53*	*12/26/24 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**378**		9.90		mg/Kg			12/23/24 15:54	1

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-52591-3
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 13:46	12/24/24 10:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 13:46	12/24/24 10:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 13:46	12/24/24 10:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 13:46	12/24/24 10:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 13:46	12/24/24 10:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 13:46	12/24/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 13:46*	*12/24/24 10:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/24/24 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			12/26/24 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+ *1	50.1		mg/Kg		12/26/24 12:00	12/26/24 15:40	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1	50.1		mg/Kg		12/26/24 12:00	12/26/24 15:40	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-52591-3
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/26/24 12:00	12/26/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/26/24 12:00*	*12/26/24 15:40*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/26/24 12:00*	*12/26/24 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		10.0		mg/Kg			12/23/24 16:00	1

Client Sample ID: AW-4 (1.5')

Lab Sample ID: 880-52591-4
Matrix: Solid
Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 11:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 13:46	12/24/24 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 11:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 13:46	12/24/24 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*12/23/24 13:46*	*12/24/24 11:19*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 13:46*	*12/24/24 11:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/24/24 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/26/24 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *+ *1	50.3		mg/Kg		12/26/24 12:00	12/26/24 15:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U *+ *1	50.3		mg/Kg		12/26/24 12:00	12/26/24 15:55	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/26/24 12:00	12/26/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/26/24 12:00*	*12/26/24 15:55*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/26/24 12:00*	*12/26/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.4**		9.98		mg/Kg			12/23/24 16:06	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Client Sample ID: CS-1 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

Lab Sample ID: 880-52591-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 11:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 11:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 11:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 13:46	12/24/24 11:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 11:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 13:46	12/24/24 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/23/24 13:46*	*12/24/24 11:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 13:46*	*12/24/24 11:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/24/24 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 12:00	12/26/24 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 12:00	12/26/24 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 12:00	12/26/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/26/24 12:00*	*12/26/24 16:11*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 12:00*	*12/26/24 16:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		9.96		mg/Kg			12/23/24 16:12	1

Client Sample ID: CS-2 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

Lab Sample ID: 880-52591-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 12:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 13:46	12/24/24 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 12:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 13:46	12/24/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*12/23/24 13:46*	*12/24/24 12:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 13:46*	*12/24/24 12:00*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Client Sample ID: CS-2 (1.5')

Date Collected: 12/20/24 00:00
Date Received: 12/23/24 12:40

Lab Sample ID: 880-52591-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/24/24 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		12/26/24 13:05	12/26/24 16:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		12/26/24 13:05	12/26/24 16:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 13:05	12/26/24 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/26/24 13:05*	*12/26/24 16:33*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/26/24 13:05*	*12/26/24 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		10.1		mg/Kg			12/23/24 16:29	1

Surrogate Summary

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-52591-1	SW-1 (1.5')	124	94
880-52591-2	SW-2 (1.5')	117	93
880-52591-3	SW-3 (1.5')	119	94
880-52591-4	AW-4 (1.5')	130	94
880-52591-5	CS-1 (1.5')	120	93
880-52591-6	CS-2 (1.5')	137 S1+	93
890-7507-A-1-A MS	Matrix Spike	100	96
890-7507-A-1-B MSD	Matrix Spike Duplicate	99	98
LCS 880-98692/1-A	Lab Control Sample	89	101
LCSD 880-98692/2-A	Lab Control Sample Dup	94	102
MB 880-98645/5-A	Method Blank	117	87
MB 880-98692/5-A	Method Blank	109	85

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52591-1	SW-1 (1.5')	76	76
880-52591-2	SW-2 (1.5')	86	85
880-52591-3	SW-3 (1.5')	71	70
880-52591-4	AW-4 (1.5')	72	70
880-52591-5	CS-1 (1.5')	69 S1-	67 S1-
880-52591-6	CS-2 (1.5')	70	69 S1-
890-7504-A-14-F MS	Matrix Spike	85	79
890-7504-A-14-G MSD	Matrix Spike Duplicate	74	77
890-7514-A-1-F MS	Matrix Spike	70	64 S1-
890-7514-A-1-G MSD	Matrix Spike Duplicate	74	67 S1-
LCS 880-98771/2-A	Lab Control Sample	90	91
LCS 880-98818/2-A	Lab Control Sample	134 S1+	115
LCSD 880-98771/3-A	Lab Control Sample Dup	96	96
LCSD 880-98818/3-A	Lab Control Sample Dup	166 S1+	141 S1+
MB 880-98771/1-A	Method Blank	68 S1-	67 S1-
MB 880-98818/1-A	Method Blank	136 S1+	133 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98645/5-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 11:18	12/23/24 21:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/23/24 11:18*	*12/23/24 21:57*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/23/24 11:18*	*12/23/24 21:57*	*1*

Lab Sample ID: MB 880-98692/5-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 13:46	12/24/24 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/23/24 13:46*	*12/24/24 08:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/23/24 13:46*	*12/24/24 08:34*	*1*

Lab Sample ID: LCS 880-98692/1-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09816		mg/Kg		98	70 - 130
Toluene	0.100	0.08648		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08520		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1668		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08843		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-98692/2-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

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

Lab Sample ID: LCSD 880-98692/2-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98692

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09287		mg/Kg		93	70 - 130	7	35
Ethylbenzene			0.100	0.09428		mg/Kg		94	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1845		mg/Kg		92	70 - 130	10	35
o-Xylene			0.100	0.09757		mg/Kg		98	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7507-A-1-A MS
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08326		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07126		mg/Kg		72	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06726	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1335	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07097		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-7507-A-1-B MSD
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09537		mg/Kg		95	70 - 130	14	35
Toluene	<0.00199	U	0.101	0.08196		mg/Kg		81	70 - 130	14	35
Ethylbenzene	<0.00199	U F1	0.101	0.07962		mg/Kg		79	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1560		mg/Kg		77	70 - 130	16	35
o-Xylene	<0.00199	U	0.101	0.08096		mg/Kg		80	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-98771/1-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

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

Lab Sample ID: MB 880-98771/1-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98771/2-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98771

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	905.0		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	808.1		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-98771/3-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.7		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	855.9		mg/Kg		86	70 - 130	6	20

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

Lab Sample ID: 890-7504-A-14-F MS
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	549.5	F1	mg/Kg		55	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	559.1	F1	mg/Kg		56	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

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

Lab Sample ID: 890-7504-A-14-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	538.1	F1	mg/Kg		54	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	570.7	F1	mg/Kg		57	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: MB 880-98818/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98811 — **Prep Batch: 98818**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*12/26/24 10:00*	*12/26/24 11:03*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*12/26/24 10:00*	*12/26/24 11:03*	*1*

Lab Sample ID: LCS 880-98818/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98811 — **Prep Batch: 98818**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1118		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-98818/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98811 — **Prep Batch: 98818**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1357	*+ *1	mg/Kg		136	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1397	*+ *1	mg/Kg		140	70 - 130	22	20

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

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

Lab Sample ID: LCSD 880-98818/3-A
Matrix: Solid
Analysis Batch: 98811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98818

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	166	S1+	70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: 890-7514-A-1-F MS
Matrix: Solid
Analysis Batch: 98811

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+ *1 F1	995	598.6	F1	mg/Kg		60	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	995	640.3	F1	mg/Kg		64	70 - 130

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

Lab Sample ID: 890-7514-A-1-G MSD
Matrix: Solid
Analysis Batch: 98811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+ *1 F1	995	595.0	F1	mg/Kg		60	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	995	691.2	F1	mg/Kg		69	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	67	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98689/1-A
Matrix: Solid
Analysis Batch: 98693

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 13:59	1

Lab Sample ID: LCS 880-98689/2-A
Matrix: Solid
Analysis Batch: 98693

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.0		mg/Kg		92	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-98689/3-A
Matrix: Solid
Analysis Batch: 98693

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	231.2		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-52591-5 MS
Matrix: Solid
Analysis Batch: 98693

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	116		249	355.7		mg/Kg		96	90 - 110		

Lab Sample ID: 880-52591-5 MSD
Matrix: Solid
Analysis Batch: 98693

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	116		249	356.0		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

GC VOA

Analysis Batch: 98598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	8021B	98692
880-52591-2	SW-2 (1.5')	Total/NA	Solid	8021B	98692
880-52591-3	SW-3 (1.5')	Total/NA	Solid	8021B	98692
880-52591-4	AW-4 (1.5')	Total/NA	Solid	8021B	98692
880-52591-5	CS-1 (1.5')	Total/NA	Solid	8021B	98692
880-52591-6	CS-2 (1.5')	Total/NA	Solid	8021B	98692
MB 880-98645/5-A	Method Blank	Total/NA	Solid	8021B	98645
MB 880-98692/5-A	Method Blank	Total/NA	Solid	8021B	98692
LCS 880-98692/1-A	Lab Control Sample	Total/NA	Solid	8021B	98692
LCSD 880-98692/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98692
890-7507-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98692
890-7507-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98692

Prep Batch: 98645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98645/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	5035	
880-52591-2	SW-2 (1.5')	Total/NA	Solid	5035	
880-52591-3	SW-3 (1.5')	Total/NA	Solid	5035	
880-52591-4	AW-4 (1.5')	Total/NA	Solid	5035	
880-52591-5	CS-1 (1.5')	Total/NA	Solid	5035	
880-52591-6	CS-2 (1.5')	Total/NA	Solid	5035	
MB 880-98692/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98692/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98692/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7507-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7507-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-52591-2	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-52591-3	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-52591-4	AW-4 (1.5')	Total/NA	Solid	Total BTEX	
880-52591-5	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-52591-6	CS-2 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-52591-2	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

GC Semi VOA

Analysis Batch: 98811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-3	SW-3 (1.5')	Total/NA	Solid	8015B NM	98818
880-52591-4	AW-4 (1.5')	Total/NA	Solid	8015B NM	98818
880-52591-5	CS-1 (1.5')	Total/NA	Solid	8015B NM	98818
880-52591-6	CS-2 (1.5')	Total/NA	Solid	8015B NM	98818
MB 880-98818/1-A	Method Blank	Total/NA	Solid	8015B NM	98818
LCS 880-98818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98818
LCSD 880-98818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98818
890-7514-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98818
890-7514-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98818

Analysis Batch: 98813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	8015B NM	98771
880-52591-2	SW-2 (1.5')	Total/NA	Solid	8015B NM	98771
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015B NM	98771
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98771
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98771
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98771
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98771

Prep Batch: 98818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-3	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-52591-4	AW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-52591-5	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-52591-6	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-98818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7514-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7514-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-52591-2	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-52591-3	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-52591-4	AW-4 (1.5')	Total/NA	Solid	8015 NM	
880-52591-5	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-52591-6	CS-2 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-52591-2	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-52591-3	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-52591-4	AW-4 (1.5')	Soluble	Solid	DI Leach	
880-52591-5	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-52591-6	CS-2 (1.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

HPLC/IC (Continued)

Leach Batch: 98689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98689/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98689/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98689/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52591-5 MS	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-52591-5 MSD	CS-1 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 98693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52591-1	SW-1 (1.5')	Soluble	Solid	300.0	98689
880-52591-2	SW-2 (1.5')	Soluble	Solid	300.0	98689
880-52591-3	SW-3 (1.5')	Soluble	Solid	300.0	98689
880-52591-4	AW-4 (1.5')	Soluble	Solid	300.0	98689
880-52591-5	CS-1 (1.5')	Soluble	Solid	300.0	98689
880-52591-6	CS-2 (1.5')	Soluble	Solid	300.0	98689
MB 880-98689/1-A	Method Blank	Soluble	Solid	300.0	98689
LCS 880-98689/2-A	Lab Control Sample	Soluble	Solid	300.0	98689
LCSD 880-98689/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98689
880-52591-5 MS	CS-1 (1.5')	Soluble	Solid	300.0	98689
880-52591-5 MSD	CS-1 (1.5')	Soluble	Solid	300.0	98689

Lab Chronicle

Client: Carmona Resources
Job ID: 880-52591-1
Project/Site: OGOPOGP FEDERAL COM #422H
SDG: 2543

Client Sample ID: SW-1 (1.5')
Lab Sample ID: 880-52591-1
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 10:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			98924	12/26/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 22:09	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 15:49	CH	EET MID

Client Sample ID: SW-2 (1.5')
Lab Sample ID: 880-52591-2
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 10:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 10:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			98924	12/26/24 22:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 22:26	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 15:54	CH	EET MID

Client Sample ID: SW-3 (1.5')
Lab Sample ID: 880-52591-3
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 10:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			98924	12/26/24 15:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	98818	12/26/24 12:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98811	12/26/24 15:40	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 16:00	CH	EET MID

Client Sample ID: AW-4 (1.5')
Lab Sample ID: 880-52591-4
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 11:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 11:19	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Job ID: 880-52591-1
Project/Site: OGOPOGP FEDERAL COM #422H
SDG: 2543

Client Sample ID: AW-4 (1.5')
Lab Sample ID: 880-52591-4
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98924	12/26/24 15:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	98818	12/26/24 12:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98811	12/26/24 15:55	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 16:06	CH	EET MID

Client Sample ID: CS-1 (1.5')
Lab Sample ID: 880-52591-5
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 11:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 11:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			98924	12/26/24 16:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98818	12/26/24 12:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98811	12/26/24 16:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 16:12	CH	EET MID

Client Sample ID: CS-2 (1.5')
Lab Sample ID: 880-52591-6
Date Collected: 12/20/24 00:00
Matrix: Solid
Date Received: 12/23/24 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98829	12/24/24 12:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			98924	12/26/24 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98818	12/26/24 13:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98811	12/26/24 16:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98689	12/23/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98693	12/23/24 16:29	CH	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: 880-52591-1
Project/Site: OGOPOGP FEDERAL COM #422H
SDG: 2543

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

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: OGOPOGP FEDERAL COM #422H

Job ID: 880-52591-1
SDG: 2543

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52591-1	SW-1 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40
880-52591-2	SW-2 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40
880-52591-3	SW-3 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40
880-52591-4	AW-4 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40
880-52591-5	CS-1 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40
880-52591-6	CS-2 (1.5')	Solid	12/20/24 00:00	12/23/24 12:40

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Chain of Custody

880-52591 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date:	48 Hour
Sampler's Name:	JDC	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR 9
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.0
Total Containers:		Corrected Temperature:	2.9

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0											HOLD
SW-1 (1.5')	12/20/2024		X		Comp	1			X	X	X											
SW-2 (1.5')	12/20/2024		X		Comp	1			X	X	X											
SW-3 (1.5')	12/20/2024		X		Comp	1			X	X	X											
SW-4 (1.5')	12/20/2024		X		Comp	1			X	X	X											
CS-1 (1.5')	12/20/2024		X		Comp	1			X	X	X											
CS-2 (1.5')	12/20/2024		X		Comp	1			X	X	X											

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Teddy Randell Le	12/23/24 12:41	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52591-1
SDG Number: 2543

Login Number: 52591
List Number: 1
Creator: Lee, Randell

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 12/30/2024 3:53:38 PM

JOB DESCRIPTION

OGOPOGO Federal Com #422H
2543

JOB NUMBER

880-52655-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 2/12/2025 2:05:22 PM

my EOL

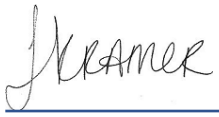
Eurofins Midland

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



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12/30/2024 3:53:38 PM

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

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Laboratory Job ID: 880-52655-1
SDG: 2543

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-52655-1
Project/Site: OGOPOGO Federal Com #422H SDG: 2543

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: OGOPOGO Federal Com #422H

Job ID: 880-52655-1

Job ID: 880-52655-1 Eurofins Midland

Job Narrative
880-52655-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/26/2024 4:01 PM. 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 -3.3°C.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-7 (3.0') (880-52655-12) and SW-8 (4.0') (880-52655-13). Percent recoveries are based on the amount spiked.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98913 and analytical batch 880-98930 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.

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

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-3 (3.0')

Lab Sample ID: 880-52655-1
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 11:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 11:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 11:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 11:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 11:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/27/24 09:46*	*12/27/24 11:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 11:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/27/24 14:21*	*12/27/24 17:46*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/27/24 14:21*	*12/27/24 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		10.0		mg/Kg			12/27/24 14:20	1

Client Sample ID: CS-4 (3.0')

Lab Sample ID: 880-52655-2
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 12:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 12:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 12:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 12:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 12:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:09*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:09*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-4 (3.0')

Lab Sample ID: 880-52655-2
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 18:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 18:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/27/24 14:21*	*12/27/24 18:32*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/27/24 14:21*	*12/27/24 18:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		9.96		mg/Kg			12/27/24 14:37	1

Client Sample ID: CS-5 (3.0')

Lab Sample ID: 880-52655-3
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 12:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 12:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:29*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 18:50	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-5 (3.0')

Lab Sample ID: 880-52655-3
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/27/24 14:21*	*12/27/24 18:50*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/27/24 14:21*	*12/27/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		9.90		mg/Kg			12/27/24 14:43	1

Client Sample ID: CS-6 (3.0')

Lab Sample ID: 880-52655-4
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 12:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 12:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 12:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 12:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 12:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/27/24 09:46*	*12/27/24 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:04*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**391**		10.1		mg/Kg			12/27/24 14:49	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-7 (4.0')

Lab Sample ID: 880-52655-5
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 13:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 13:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 13:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 13:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 13:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:10*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:20*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		9.98		mg/Kg			12/27/24 14:55	1

Client Sample ID: CS-8 (4.0')

Lab Sample ID: 880-52655-6
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 13:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 13:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 13:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 13:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 13:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:31*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-8 (4.0')

Lab Sample ID: 880-52655-6
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:35*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		9.90		mg/Kg			12/27/24 15:13	1

Client Sample ID: CS-9 (4.0')

Lab Sample ID: 880-52655-7
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 09:46	12/27/24 13:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 09:46	12/27/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/27/24 09:46*	*12/27/24 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 19:51	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-9 (4.0')

Lab Sample ID: 880-52655-7
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:51*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/27/24 14:21*	*12/27/24 19:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		10.0		mg/Kg			12/27/24 15:18	1

Client Sample ID: CS-10 (4.0')

Lab Sample ID: 880-52655-8
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:05*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		10.0		mg/Kg			12/27/24 15:24	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-11 (4.0')

Lab Sample ID: 880-52655-9
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 14:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 14:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 14:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 14:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 14:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:32*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 20:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:21*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		9.98		mg/Kg			12/27/24 15:30	1

Client Sample ID: SW-5 (3.0')

Lab Sample ID: 880-52655-10
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 14:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:53*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 14:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-5 (3.0')

Lab Sample ID: 880-52655-10
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:35*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/27/24 14:21*	*12/27/24 20:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**256**		9.96		mg/Kg			12/27/24 15:36	1

Client Sample ID: SW-6 (3.0')

Lab Sample ID: 880-52655-11
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 16:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 16:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 16:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 16:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 16:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:46	12/27/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/27/24 09:46*	*12/27/24 16:27*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 16:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:06	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-6 (3.0')

Lab Sample ID: 880-52655-11
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/27/24 14:21*	*12/27/24 21:06*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/27/24 14:21*	*12/27/24 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**387**	**F1**	9.94		mg/Kg			12/27/24 15:42	1

Client Sample ID: SW-7 (3.0')

Lab Sample ID: 880-52655-12
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 16:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 16:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 16:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 09:46	12/27/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/27/24 09:46*	*12/27/24 16:48*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 16:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/27/24 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/27/24 14:21	12/27/24 21:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 14:21	12/27/24 21:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 14:21	12/27/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/27/24 14:21*	*12/27/24 21:21*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/27/24 14:21*	*12/27/24 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		10.0		mg/Kg			12/27/24 16:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-8 (4.0')

Lab Sample ID: 880-52655-13
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 17:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 17:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*12/27/24 14:21*	*12/27/24 21:36*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/27/24 14:21*	*12/27/24 21:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		10.1		mg/Kg			12/27/24 16:06	1

Client Sample ID: SW-9 (4.0')

Lab Sample ID: 880-52655-14
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 17:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 17:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 17:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 17:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:29*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-9 (4.0')

Lab Sample ID: 880-52655-14
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 21:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 21:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/27/24 14:21*	*12/27/24 21:51*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/27/24 14:21*	*12/27/24 21:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.8**		10.1		mg/Kg			12/27/24 16:24	1

Client Sample ID: SW-10 (4.0')

Lab Sample ID: 880-52655-15
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 17:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 17:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 17:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 09:46	12/27/24 17:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:46	12/27/24 17:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 09:46	12/27/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:49*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 17:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:06	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-10 (4.0')

Lab Sample ID: 880-52655-15
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:06*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**424**		9.96		mg/Kg			12/27/24 16:30	1

Client Sample ID: SW-11 (4.0')

Lab Sample ID: 880-52655-16
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 18:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 18:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 18:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/27/24 09:46	12/27/24 18:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:46	12/27/24 18:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/27/24 09:46	12/27/24 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:10*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/27/24 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 22:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 22:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:21	12/27/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:21*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**278**		9.90		mg/Kg			12/27/24 16:35	1

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-12 (4.0')

Lab Sample ID: 880-52655-17
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 18:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 18:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 18:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 18:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 18:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:46	12/27/24 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 22:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 22:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:21	12/27/24 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:35*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		10.0		mg/Kg			12/27/24 16:41	1

Client Sample ID: SW-13 (4.0')

Lab Sample ID: 880-52655-18
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 18:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 18:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 18:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:46	12/27/24 18:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:46	12/27/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/27/24 09:46*	*12/27/24 18:51*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-13 (4.0')

Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Lab Sample ID: 880-52655-18

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:21	12/27/24 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:51*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/27/24 14:21*	*12/27/24 22:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		9.98		mg/Kg			12/27/24 16:47	1

Surrogate Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-52655-1	CS-3 (3.0')	94	98										
880-52655-1 MS	CS-3 (3.0')	100	98										
880-52655-1 MSD	CS-3 (3.0')	113	101										
880-52655-2	CS-4 (3.0')	97	100										
880-52655-3	CS-5 (3.0')	95	100										
880-52655-4	CS-6 (3.0')	106	101										
880-52655-5	CS-7 (4.0')	104	99										
880-52655-6	CS-8 (4.0')	102	98										
880-52655-7	CS-9 (4.0')	101	97										
880-52655-8	CS-10 (4.0')	93	100										
880-52655-9	CS-11 (4.0')	97	98										
880-52655-10	SW-5 (3.0')	105	98										
880-52655-11	SW-6 (3.0')	101	99										
880-52655-12	SW-7 (3.0')	95	99										
880-52655-13	SW-8 (4.0')	98	100										
880-52655-14	SW-9 (4.0')	109	98										
880-52655-15	SW-10 (4.0')	105	100										
880-52655-16	SW-11 (4.0')	93	99										
880-52655-17	SW-12 (4.0')	99	99										
880-52655-18	SW-13 (4.0')	94	100										
LCS 880-98920/1-A	Lab Control Sample	109	98										
LCSD 880-98920/2-A	Lab Control Sample Dup	108	100										
MB 880-98920/5-A	Method Blank	97	92										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-52655-1	CS-3 (3.0')	79	79										
880-52655-1 MS	CS-3 (3.0')	76	72										
880-52655-1 MSD	CS-3 (3.0')	77	72										
880-52655-2	CS-4 (3.0')	77	75										
880-52655-3	CS-5 (3.0')	75	74										
880-52655-4	CS-6 (3.0')	74	74										
880-52655-5	CS-7 (4.0')	76	76										
880-52655-6	CS-8 (4.0')	71	72										
880-52655-7	CS-9 (4.0')	76	77										
880-52655-8	CS-10 (4.0')	84	84										
880-52655-9	CS-11 (4.0')	76	76										
880-52655-10	SW-5 (3.0')	81	83										
880-52655-11	SW-6 (3.0')	71	74										
880-52655-12	SW-7 (3.0')	68 S1-	69 S1-										
880-52655-13	SW-8 (4.0')	67 S1-	67 S1-										
880-52655-14	SW-9 (4.0')	78	76										

Surrogate Summary

Client: Carmona Resources Job ID: 880-52655-1
Project/Site: OGOPOGO Federal Com #422H SDG: 2543

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-52655-15	SW-10 (4.0')	73	73								
880-52655-16	SW-11 (4.0')	71	71								
880-52655-17	SW-12 (4.0')	73	73								
880-52655-18	SW-13 (4.0')	74	75								
LCS 880-98966/2-A	Lab Control Sample	122	107								
LCSD 880-98966/3-A	Lab Control Sample Dup	112	99								
MB 880-98966/1-A	Method Blank	84	81								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98920/5-A
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:46	12/27/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/27/24 09:46*	*12/27/24 11:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/27/24 09:46*	*12/27/24 11:27*	*1*

Lab Sample ID: LCS 880-98920/1-A
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1149		mg/Kg		115	70 - 130
Toluene	0.100	0.1135		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2097		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1151		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-98920/2-A
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1261		mg/Kg		126	70 - 130	9	35
Toluene	0.100	0.1221		mg/Kg		122	70 - 130	7	35
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2228		mg/Kg		111	70 - 130	6	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52655-1 MS
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: CS-3 (3.0')
Prep Type: Total/NA
Prep Batch: 98920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1127		mg/Kg		113	70 - 130
Toluene	<0.00199	U	0.0996	0.1115		mg/Kg		112	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

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

Lab Sample ID: 880-52655-1 MS
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: CS-3 (3.0')
Prep Type: Total/NA
Prep Batch: 98920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1079		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2093		mg/Kg		105	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1128		mg/Kg		113	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-52655-1 MSD
Matrix: Solid
Analysis Batch: 98910

Client Sample ID: CS-3 (3.0')
Prep Type: Total/NA
Prep Batch: 98920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1077		mg/Kg		107	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1063		mg/Kg		105	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2043		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-98966/1-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 09:00	12/27/24 09:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 09:00	12/27/24 09:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 09:00	12/27/24 09:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/27/24 09:00*	*12/27/24 09:48*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/27/24 09:00*	*12/27/24 09:48*	*1*

Lab Sample ID: LCS 880-98966/2-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1026		mg/Kg		103	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

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

Lab Sample ID: LCS 880-98966/2-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98966

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-98966/3-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98966

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.4		mg/Kg		100	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	933.2		mg/Kg		93	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-52655-1 MS
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: CS-3 (3.0')
Prep Type: Total/NA
Prep Batch: 98966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	748.1		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	727.7		mg/Kg		70	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-52655-1 MSD
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: CS-3 (3.0')
Prep Type: Total/NA
Prep Batch: 98966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	780.9		mg/Kg		78	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	762.1		mg/Kg		73	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	72		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98913/1-A
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/27/24 14:02	1

Lab Sample ID: LCS 880-98913/2-A
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-98913/3-A
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-52655-1 MS
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: CS-3 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	160		251	416.8		mg/Kg		102	90 - 110		

Lab Sample ID: 880-52655-1 MSD
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: CS-3 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	160		251	416.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-52655-11 MS
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: SW-6 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	387	F1	249	669.0	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-52655-11 MSD
Matrix: Solid
Analysis Batch: 98930

Client Sample ID: SW-6 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	387	F1	249	667.9	F1	mg/Kg		113	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

GC VOA

Analysis Batch: 98910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	8021B	98920
880-52655-2	CS-4 (3.0')	Total/NA	Solid	8021B	98920
880-52655-3	CS-5 (3.0')	Total/NA	Solid	8021B	98920
880-52655-4	CS-6 (3.0')	Total/NA	Solid	8021B	98920
880-52655-5	CS-7 (4.0')	Total/NA	Solid	8021B	98920
880-52655-6	CS-8 (4.0')	Total/NA	Solid	8021B	98920
880-52655-7	CS-9 (4.0')	Total/NA	Solid	8021B	98920
880-52655-8	CS-10 (4.0')	Total/NA	Solid	8021B	98920
880-52655-9	CS-11 (4.0')	Total/NA	Solid	8021B	98920
880-52655-10	SW-5 (3.0')	Total/NA	Solid	8021B	98920
880-52655-11	SW-6 (3.0')	Total/NA	Solid	8021B	98920
880-52655-12	SW-7 (3.0')	Total/NA	Solid	8021B	98920
880-52655-13	SW-8 (4.0')	Total/NA	Solid	8021B	98920
880-52655-14	SW-9 (4.0')	Total/NA	Solid	8021B	98920
880-52655-15	SW-10 (4.0')	Total/NA	Solid	8021B	98920
880-52655-16	SW-11 (4.0')	Total/NA	Solid	8021B	98920
880-52655-17	SW-12 (4.0')	Total/NA	Solid	8021B	98920
880-52655-18	SW-13 (4.0')	Total/NA	Solid	8021B	98920
MB 880-98920/5-A	Method Blank	Total/NA	Solid	8021B	98920
LCS 880-98920/1-A	Lab Control Sample	Total/NA	Solid	8021B	98920
LCSD 880-98920/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98920
880-52655-1 MS	CS-3 (3.0')	Total/NA	Solid	8021B	98920
880-52655-1 MSD	CS-3 (3.0')	Total/NA	Solid	8021B	98920

Prep Batch: 98920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	5035	
880-52655-2	CS-4 (3.0')	Total/NA	Solid	5035	
880-52655-3	CS-5 (3.0')	Total/NA	Solid	5035	
880-52655-4	CS-6 (3.0')	Total/NA	Solid	5035	
880-52655-5	CS-7 (4.0')	Total/NA	Solid	5035	
880-52655-6	CS-8 (4.0')	Total/NA	Solid	5035	
880-52655-7	CS-9 (4.0')	Total/NA	Solid	5035	
880-52655-8	CS-10 (4.0')	Total/NA	Solid	5035	
880-52655-9	CS-11 (4.0')	Total/NA	Solid	5035	
880-52655-10	SW-5 (3.0')	Total/NA	Solid	5035	
880-52655-11	SW-6 (3.0')	Total/NA	Solid	5035	
880-52655-12	SW-7 (3.0')	Total/NA	Solid	5035	
880-52655-13	SW-8 (4.0')	Total/NA	Solid	5035	
880-52655-14	SW-9 (4.0')	Total/NA	Solid	5035	
880-52655-15	SW-10 (4.0')	Total/NA	Solid	5035	
880-52655-16	SW-11 (4.0')	Total/NA	Solid	5035	
880-52655-17	SW-12 (4.0')	Total/NA	Solid	5035	
880-52655-18	SW-13 (4.0')	Total/NA	Solid	5035	
MB 880-98920/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98920/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98920/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52655-1 MS	CS-3 (3.0')	Total/NA	Solid	5035	
880-52655-1 MSD	CS-3 (3.0')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

GC VOA

Analysis Batch: 99012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-2	CS-4 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-3	CS-5 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-4	CS-6 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-5	CS-7 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-6	CS-8 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-7	CS-9 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-8	CS-10 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-9	CS-11 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-10	SW-5 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-11	SW-6 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-12	SW-7 (3.0')	Total/NA	Solid	Total BTEX	
880-52655-13	SW-8 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-14	SW-9 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-15	SW-10 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-16	SW-11 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-17	SW-12 (4.0')	Total/NA	Solid	Total BTEX	
880-52655-18	SW-13 (4.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-2	CS-4 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-3	CS-5 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-4	CS-6 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-5	CS-7 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-6	CS-8 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-7	CS-9 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-8	CS-10 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-9	CS-11 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-10	SW-5 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-11	SW-6 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-12	SW-7 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-13	SW-8 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-14	SW-9 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-15	SW-10 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-16	SW-11 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-17	SW-12 (4.0')	Total/NA	Solid	8015NM Prep	
880-52655-18	SW-13 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-98966/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98966/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52655-1 MS	CS-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-52655-1 MSD	CS-3 (3.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-2	CS-4 (3.0')	Total/NA	Solid	8015B NM	98966

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

GC Semi VOA (Continued)

Analysis Batch: 98974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-3	CS-5 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-4	CS-6 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-5	CS-7 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-6	CS-8 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-7	CS-9 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-8	CS-10 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-9	CS-11 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-10	SW-5 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-11	SW-6 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-12	SW-7 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-13	SW-8 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-14	SW-9 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-15	SW-10 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-16	SW-11 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-17	SW-12 (4.0')	Total/NA	Solid	8015B NM	98966
880-52655-18	SW-13 (4.0')	Total/NA	Solid	8015B NM	98966
MB 880-98966/1-A	Method Blank	Total/NA	Solid	8015B NM	98966
LCS 880-98966/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98966
LCSD 880-98966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98966
880-52655-1 MS	CS-3 (3.0')	Total/NA	Solid	8015B NM	98966
880-52655-1 MSD	CS-3 (3.0')	Total/NA	Solid	8015B NM	98966

Analysis Batch: 99080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Total/NA	Solid	8015 NM	
880-52655-2	CS-4 (3.0')	Total/NA	Solid	8015 NM	
880-52655-3	CS-5 (3.0')	Total/NA	Solid	8015 NM	
880-52655-4	CS-6 (3.0')	Total/NA	Solid	8015 NM	
880-52655-5	CS-7 (4.0')	Total/NA	Solid	8015 NM	
880-52655-6	CS-8 (4.0')	Total/NA	Solid	8015 NM	
880-52655-7	CS-9 (4.0')	Total/NA	Solid	8015 NM	
880-52655-8	CS-10 (4.0')	Total/NA	Solid	8015 NM	
880-52655-9	CS-11 (4.0')	Total/NA	Solid	8015 NM	
880-52655-10	SW-5 (3.0')	Total/NA	Solid	8015 NM	
880-52655-11	SW-6 (3.0')	Total/NA	Solid	8015 NM	
880-52655-12	SW-7 (3.0')	Total/NA	Solid	8015 NM	
880-52655-13	SW-8 (4.0')	Total/NA	Solid	8015 NM	
880-52655-14	SW-9 (4.0')	Total/NA	Solid	8015 NM	
880-52655-15	SW-10 (4.0')	Total/NA	Solid	8015 NM	
880-52655-16	SW-11 (4.0')	Total/NA	Solid	8015 NM	
880-52655-17	SW-12 (4.0')	Total/NA	Solid	8015 NM	
880-52655-18	SW-13 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Soluble	Solid	DI Leach	
880-52655-2	CS-4 (3.0')	Soluble	Solid	DI Leach	
880-52655-3	CS-5 (3.0')	Soluble	Solid	DI Leach	
880-52655-4	CS-6 (3.0')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

HPLC/IC (Continued)

Leach Batch: 98913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-5	CS-7 (4.0')	Soluble	Solid	DI Leach	
880-52655-6	CS-8 (4.0')	Soluble	Solid	DI Leach	
880-52655-7	CS-9 (4.0')	Soluble	Solid	DI Leach	
880-52655-8	CS-10 (4.0')	Soluble	Solid	DI Leach	
880-52655-9	CS-11 (4.0')	Soluble	Solid	DI Leach	
880-52655-10	SW-5 (3.0')	Soluble	Solid	DI Leach	
880-52655-11	SW-6 (3.0')	Soluble	Solid	DI Leach	
880-52655-12	SW-7 (3.0')	Soluble	Solid	DI Leach	
880-52655-13	SW-8 (4.0')	Soluble	Solid	DI Leach	
880-52655-14	SW-9 (4.0')	Soluble	Solid	DI Leach	
880-52655-15	SW-10 (4.0')	Soluble	Solid	DI Leach	
880-52655-16	SW-11 (4.0')	Soluble	Solid	DI Leach	
880-52655-17	SW-12 (4.0')	Soluble	Solid	DI Leach	
880-52655-18	SW-13 (4.0')	Soluble	Solid	DI Leach	
MB 880-98913/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98913/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98913/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52655-1 MS	CS-3 (3.0')	Soluble	Solid	DI Leach	
880-52655-1 MSD	CS-3 (3.0')	Soluble	Solid	DI Leach	
880-52655-11 MS	SW-6 (3.0')	Soluble	Solid	DI Leach	
880-52655-11 MSD	SW-6 (3.0')	Soluble	Solid	DI Leach	

Analysis Batch: 98930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52655-1	CS-3 (3.0')	Soluble	Solid	300.0	98913
880-52655-2	CS-4 (3.0')	Soluble	Solid	300.0	98913
880-52655-3	CS-5 (3.0')	Soluble	Solid	300.0	98913
880-52655-4	CS-6 (3.0')	Soluble	Solid	300.0	98913
880-52655-5	CS-7 (4.0')	Soluble	Solid	300.0	98913
880-52655-6	CS-8 (4.0')	Soluble	Solid	300.0	98913
880-52655-7	CS-9 (4.0')	Soluble	Solid	300.0	98913
880-52655-8	CS-10 (4.0')	Soluble	Solid	300.0	98913
880-52655-9	CS-11 (4.0')	Soluble	Solid	300.0	98913
880-52655-10	SW-5 (3.0')	Soluble	Solid	300.0	98913
880-52655-11	SW-6 (3.0')	Soluble	Solid	300.0	98913
880-52655-12	SW-7 (3.0')	Soluble	Solid	300.0	98913
880-52655-13	SW-8 (4.0')	Soluble	Solid	300.0	98913
880-52655-14	SW-9 (4.0')	Soluble	Solid	300.0	98913
880-52655-15	SW-10 (4.0')	Soluble	Solid	300.0	98913
880-52655-16	SW-11 (4.0')	Soluble	Solid	300.0	98913
880-52655-17	SW-12 (4.0')	Soluble	Solid	300.0	98913
880-52655-18	SW-13 (4.0')	Soluble	Solid	300.0	98913
MB 880-98913/1-A	Method Blank	Soluble	Solid	300.0	98913
LCS 880-98913/2-A	Lab Control Sample	Soluble	Solid	300.0	98913
LCSD 880-98913/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98913
880-52655-1 MS	CS-3 (3.0')	Soluble	Solid	300.0	98913
880-52655-1 MSD	CS-3 (3.0')	Soluble	Solid	300.0	98913
880-52655-11 MS	SW-6 (3.0')	Soluble	Solid	300.0	98913
880-52655-11 MSD	SW-6 (3.0')	Soluble	Solid	300.0	98913

Lab Chronicle

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-3 (3.0')

Lab Sample ID: 880-52655-1
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 11:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 17:46	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 14:20	CH	EET MID

Client Sample ID: CS-4 (3.0')

Lab Sample ID: 880-52655-2
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 18:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 18:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 14:37	CH	EET MID

Client Sample ID: CS-5 (3.0')

Lab Sample ID: 880-52655-3
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 12:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 18:50	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 14:43	CH	EET MID

Client Sample ID: CS-6 (3.0')

Lab Sample ID: 880-52655-4
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 12:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-6 (3.0')

Lab Sample ID: 880-52655-4
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99080	12/27/24 19:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 19:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 14:49	CH	EET MID

Client Sample ID: CS-7 (4.0')

Lab Sample ID: 880-52655-5
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 19:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 19:20	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 14:55	CH	EET MID

Client Sample ID: CS-8 (4.0')

Lab Sample ID: 880-52655-6
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 19:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 19:35	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:13	CH	EET MID

Client Sample ID: CS-9 (4.0')

Lab Sample ID: 880-52655-7
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 19:51	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: CS-9 (4.0')

Lab Sample ID: 880-52655-7
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:18	CH	EET MID

Client Sample ID: CS-10 (4.0')

Lab Sample ID: 880-52655-8
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 20:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 20:05	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:24	CH	EET MID

Client Sample ID: CS-11 (4.0')

Lab Sample ID: 880-52655-9
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 20:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:30	CH	EET MID

Client Sample ID: SW-5 (3.0')

Lab Sample ID: 880-52655-10
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 20:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 20:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:36	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-6 (3.0')

Lab Sample ID: 880-52655-11
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 15:42	CH	EET MID

Client Sample ID: SW-7 (3.0')

Lab Sample ID: 880-52655-12
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 21:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 21:21	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:00	CH	EET MID

Client Sample ID: SW-8 (4.0')

Lab Sample ID: 880-52655-13
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 21:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 21:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:06	CH	EET MID

Client Sample ID: SW-9 (4.0')

Lab Sample ID: 880-52655-14
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 17:29	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Client Sample ID: SW-9 (4.0')

Lab Sample ID: 880-52655-14
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99080	12/27/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 21:51	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:24	CH	EET MID

Client Sample ID: SW-10 (4.0')

Lab Sample ID: 880-52655-15
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 22:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:30	CH	EET MID

Client Sample ID: SW-11 (4.0')

Lab Sample ID: 880-52655-16
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 18:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 22:21	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:35	CH	EET MID

Client Sample ID: SW-12 (4.0')

Lab Sample ID: 880-52655-17
Matrix: Solid
Date Collected: 12/23/24 00:00
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 22:35	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Job ID: 880-52655-1
Project/Site: OGOPOGO Federal Com #422H
SDG: 2543

Client Sample ID: SW-12 (4.0')
Lab Sample ID: 880-52655-17

Date Collected: 12/23/24 00:00
Matrix: Solid
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:41	CH	EET MID

Client Sample ID: SW-13 (4.0')
Lab Sample ID: 880-52655-18

Date Collected: 12/23/24 00:00
Matrix: Solid
Date Received: 12/26/24 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98920	12/27/24 09:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99012	12/27/24 18:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99080	12/27/24 22:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98966	12/27/24 14:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/27/24 22:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98913	12/27/24 08:58	CH	EET MID
Soluble	Analysis	300.0		1			98930	12/27/24 16:47	CH	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: 880-52655-1
Project/Site: OGOPOGO Federal Com #422H
SDG: 2543

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

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: OGOPOGO Federal Com #422H

Job ID: 880-52655-1
SDG: 2543

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52655-1	CS-3 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-2	CS-4 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-3	CS-5 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-4	CS-6 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-5	CS-7 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-6	CS-8 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-7	CS-9 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-8	CS-10 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-9	CS-11 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-10	SW-5 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-11	SW-6 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-12	SW-7 (3.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-13	SW-8 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-14	SW-9 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-15	SW-10 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-16	SW-11 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-17	SW-12 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01
880-52655-18	SW-13 (4.0')	Solid	12/23/24 00:00	12/26/24 16:01

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Chain of Custody

12/30/2024

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	48 Hour
Sampler's Name:	GPJ	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	FK-8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-2.2
Total Containers:		Corrected Temperature:	-3.3

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
CS-3 (3.0')	12/23/2024		X		Comp	1		X	X	X		
CS-4 (3.0')	12/23/2024		X		Comp	1		X	X	X		
CS-5 (3.0')	12/23/2024		X		Comp	1		X	X	X		
CS-6 (3.0')	12/23/2024		X		Comp	1		X	X	X		
CS-7 (4.0')	12/23/2024		X		Comp	1		X	X	X		
CS-8 (4.0')	12/23/2024		X		Comp	1		X	X	X		
CS-9 (4.0')	12/23/2024		X		Comp	1		X	X	X		
CS-10 (4.0')	12/23/2024		X		Comp	1		X	X	X		
CS-11 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-5 (3.0')	12/23/2024		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Teddy Kendall Lee	12/26/24 16:00			
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

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Chain of Custody

Loc: 880
52655

Work Order No: _____

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date:	48 Hour
Sampler's Name:	GPJ	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
SW-6 (3.0')	12/23/2024		X		Comp	1		X	X	X		
SW-7 (3.0')	12/23/2024		X		Comp	1		X	X	X		
SW-8 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-9 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-10 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-11 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-12 (4.0')	12/23/2024		X		Comp	1		X	X	X		
SW-13 (4.0')	12/23/2024		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Teddy Randell Lee	12/26/24 16:01	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52655-1
SDG Number: 2543

Login Number: 52655
List Number: 1
Creator: Lee, Randell

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/6/2025 12:14:00 PM

JOB DESCRIPTION

Ogopogo Federal Com #422H
Eddy Co NM

JOB NUMBER

880-52810-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

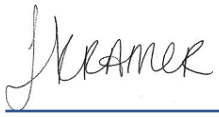
Eurofins Midland

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



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Authorized for release by
Jessica Kramer, Project Manager
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Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Laboratory Job ID: 880-52810-1
SDG: Eddy Co NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Ogopogo Federal Com #422H

Job ID: 880-52810-1

Job ID: 880-52810-1 Eurofins Midland

Job Narrative
880-52810-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/3/2025 11:39 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 -9.2°C.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-12 (1.5') (880-52810-1), CS-13 (1.5') (880-52810-2) and (LCSD 880-99306/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-99306/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-99306 and analytical batch 880-99405 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and within limits in the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 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.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 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.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-14 (1.5') (880-52810-3). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: CS-12 (1.5')

Lab Sample ID: 880-52810-1
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/03/25 12:34	01/03/25 14:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/03/25 12:34	01/03/25 14:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/03/25 12:34	01/03/25 14:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/03/25 12:34	01/03/25 14:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/03/25 12:34	01/03/25 14:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/03/25 12:34	01/03/25 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/03/25 12:34*	*01/03/25 14:24*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/03/25 12:34*	*01/03/25 14:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/03/25 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/03/25 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		01/03/25 11:47	01/03/25 18:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/03/25 11:47	01/03/25 18:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/03/25 11:47	01/03/25 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*01/03/25 11:47*	*01/03/25 18:23*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*01/03/25 11:47*	*01/03/25 18:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**353**		9.98		mg/Kg			01/04/25 03:07	1

Client Sample ID: CS-13 (1.5')

Lab Sample ID: 880-52810-2
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 14:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 14:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 14:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/03/25 12:34	01/03/25 14:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 14:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/03/25 12:34	01/03/25 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/25 12:34*	*01/03/25 14:45*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/03/25 12:34*	*01/03/25 14:45*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: CS-13 (1.5')

Lab Sample ID: 880-52810-2
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/03/25 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/03/25 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/03/25 11:47	01/03/25 18:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/03/25 11:47	01/03/25 18:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/03/25 11:47	01/03/25 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/03/25 11:47*	*01/03/25 18:37*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*01/03/25 11:47*	*01/03/25 18:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		9.96		mg/Kg			01/04/25 03:25	1

Client Sample ID: SW-14 (1.5')

Lab Sample ID: 880-52810-3
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 15:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 15:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 15:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/03/25 12:34	01/03/25 15:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 15:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/03/25 12:34	01/03/25 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/03/25 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/25 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/03/25 11:47	01/03/25 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/03/25 11:47	01/03/25 18:53	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: SW-14 (1.5')

Lab Sample ID: 880-52810-3
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/25 11:47	01/03/25 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/03/25 11:47*	*01/03/25 18:53*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*01/03/25 11:47*	*01/03/25 18:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**453**		9.94		mg/Kg			01/04/25 03:31	1

Client Sample ID: SW-15 (1.5')

Lab Sample ID: 880-52810-4
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/03/25 12:34	01/03/25 15:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/03/25 12:34	01/03/25 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:26*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/03/25 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/03/25 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/03/25 11:47	01/03/25 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/03/25 11:47	01/03/25 19:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/25 11:47	01/03/25 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:07*	*1*
o-Terphenyl	*70*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		9.94		mg/Kg			01/04/25 03:49	1

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: SW-16 (1.5')

Lab Sample ID: 880-52810-5
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/25 12:34	01/03/25 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/25 12:34	01/03/25 15:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/25 12:34	01/03/25 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:46*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/03/25 12:34*	*01/03/25 15:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/03/25 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**402**		49.8		mg/Kg			01/03/25 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/03/25 11:47	01/03/25 19:22	1
Diesel Range Organics (Over C10-C28)	**402**	***+**	49.8		mg/Kg		01/03/25 11:47	01/03/25 19:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/03/25 11:47	01/03/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:22*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**559**		10.1		mg/Kg			01/04/25 03:54	1

Client Sample ID: SW-17 (1.5')

Lab Sample ID: 880-52810-6
Date Collected: 01/02/25 00:00
Matrix: Solid
Date Received: 01/03/25 11:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 16:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 16:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 16:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/03/25 12:34	01/03/25 16:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/03/25 12:34	01/03/25 16:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/03/25 12:34	01/03/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/03/25 12:34*	*01/03/25 16:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/03/25 12:34*	*01/03/25 16:07*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: SW-17 (1.5')

Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Lab Sample ID: 880-52810-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/03/25 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/25 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/03/25 11:47	01/03/25 19:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/03/25 11:47	01/03/25 19:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/25 11:47	01/03/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:36*	*1*
o-Terphenyl	*70*		*70 - 130*	*01/03/25 11:47*	*01/03/25 19:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**514**		10.1		mg/Kg			01/04/25 04:00	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-52810-1	CS-12 (1.5')	114	107
880-52810-1 MS	CS-12 (1.5')	107	100
880-52810-1 MSD	CS-12 (1.5')	110	103
880-52810-2	CS-13 (1.5')	115	105
880-52810-3	SW-14 (1.5')	115	106
880-52810-4	SW-15 (1.5')	114	107
880-52810-5	SW-16 (1.5')	112	105
880-52810-6	SW-17 (1.5')	108	100
LCS 880-99435/1-A	Lab Control Sample	109	104
LCSD 880-99435/2-A	Lab Control Sample Dup	109	103
MB 880-99435/5-A	Method Blank	108	100

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52810-1	CS-12 (1.5')	63 S1-	61 S1-
880-52810-2	CS-13 (1.5')	67 S1-	67 S1-
880-52810-3	SW-14 (1.5')	71	69 S1-
880-52810-4	SW-15 (1.5')	71	70
880-52810-5	SW-16 (1.5')	72	72
880-52810-6	SW-17 (1.5')	71	70
890-7524-A-1-C MS	Matrix Spike	95	90
890-7524-A-1-D MSD	Matrix Spike Duplicate	96	88
LCS 880-99306/2-A	Lab Control Sample	142 S1+	126
LCSD 880-99306/3-A	Lab Control Sample Dup	161 S1+	147 S1+
MB 880-99306/1-A	Method Blank	102	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99435/5-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/25 09:00	01/03/25 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/03/25 09:00*	*01/03/25 14:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/03/25 09:00*	*01/03/25 14:03*	*1*

Lab Sample ID: LCS 880-99435/1-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1040		mg/Kg		104	70 - 130
Toluene	0.100	0.1014		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09987		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130

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

Lab Sample ID: LCSD 880-99435/2-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	6	35
Toluene	0.100	0.1081		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2182		mg/Kg		109	70 - 130	6	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-52810-1 MS
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: CS-12 (1.5')
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.1075		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.100	0.1066		mg/Kg		106	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

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

Lab Sample ID: 880-52810-1 MS
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: CS-12 (1.5')
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.1055		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2128		mg/Kg		106	70 - 130
o-Xylene	<0.00198	U	0.100	0.1082		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52810-1 MSD
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: CS-12 (1.5')
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1112		mg/Kg		111	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.1098		mg/Kg		110	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.0998	0.1089		mg/Kg		109	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2197		mg/Kg		110	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1123		mg/Kg		113	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-99306/1-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*01/02/25 11:47*	*01/03/25 01:04*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/02/25 11:47*	*01/03/25 01:04*	*1*

Lab Sample ID: LCS 880-99306/2-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1200		mg/Kg		120	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-99306/2-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99306

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-99306/3-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99306

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1351	*+	mg/Kg		135	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1347	*+	mg/Kg		135	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	161	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

Lab Sample ID: 890-7524-A-1-C MS
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99306

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	994	682.6	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	994	679.7	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-7524-A-1-D MSD
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99306

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	994	721.8		mg/Kg		73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	994	670.4	F1	mg/Kg		67	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99437/1-A
Matrix: Solid
Analysis Batch: 99438

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/04/25 01:27	1

Lab Sample ID: LCS 880-99437/2-A
Matrix: Solid
Analysis Batch: 99438

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-99437/3-A
Matrix: Solid
Analysis Batch: 99438

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-52810-1 MS
Matrix: Solid
Analysis Batch: 99438

Client Sample ID: CS-12 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	353		250	597.2		mg/Kg		98	90 - 110		

Lab Sample ID: 880-52810-1 MSD
Matrix: Solid
Analysis Batch: 99438

Client Sample ID: CS-12 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	353		250	597.4		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

GC VOA

Analysis Batch: 99380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	8021B	99435
880-52810-2	CS-13 (1.5')	Total/NA	Solid	8021B	99435
880-52810-3	SW-14 (1.5')	Total/NA	Solid	8021B	99435
880-52810-4	SW-15 (1.5')	Total/NA	Solid	8021B	99435
880-52810-5	SW-16 (1.5')	Total/NA	Solid	8021B	99435
880-52810-6	SW-17 (1.5')	Total/NA	Solid	8021B	99435
MB 880-99435/5-A	Method Blank	Total/NA	Solid	8021B	99435
LCS 880-99435/1-A	Lab Control Sample	Total/NA	Solid	8021B	99435
LCSD 880-99435/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99435
880-52810-1 MS	CS-12 (1.5')	Total/NA	Solid	8021B	99435
880-52810-1 MSD	CS-12 (1.5')	Total/NA	Solid	8021B	99435

Prep Batch: 99435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	5035	
880-52810-2	CS-13 (1.5')	Total/NA	Solid	5035	
880-52810-3	SW-14 (1.5')	Total/NA	Solid	5035	
880-52810-4	SW-15 (1.5')	Total/NA	Solid	5035	
880-52810-5	SW-16 (1.5')	Total/NA	Solid	5035	
880-52810-6	SW-17 (1.5')	Total/NA	Solid	5035	
MB 880-99435/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99435/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99435/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52810-1 MS	CS-12 (1.5')	Total/NA	Solid	5035	
880-52810-1 MSD	CS-12 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 99562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	Total BTEX	
880-52810-2	CS-13 (1.5')	Total/NA	Solid	Total BTEX	
880-52810-3	SW-14 (1.5')	Total/NA	Solid	Total BTEX	
880-52810-4	SW-15 (1.5')	Total/NA	Solid	Total BTEX	
880-52810-5	SW-16 (1.5')	Total/NA	Solid	Total BTEX	
880-52810-6	SW-17 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	8015NM Prep	
880-52810-2	CS-13 (1.5')	Total/NA	Solid	8015NM Prep	
880-52810-3	SW-14 (1.5')	Total/NA	Solid	8015NM Prep	
880-52810-4	SW-15 (1.5')	Total/NA	Solid	8015NM Prep	
880-52810-5	SW-16 (1.5')	Total/NA	Solid	8015NM Prep	
880-52810-6	SW-17 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

GC Semi VOA

Analysis Batch: 99405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	8015B NM	99306
880-52810-2	CS-13 (1.5')	Total/NA	Solid	8015B NM	99306
880-52810-3	SW-14 (1.5')	Total/NA	Solid	8015B NM	99306
880-52810-4	SW-15 (1.5')	Total/NA	Solid	8015B NM	99306
880-52810-5	SW-16 (1.5')	Total/NA	Solid	8015B NM	99306
880-52810-6	SW-17 (1.5')	Total/NA	Solid	8015B NM	99306
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015B NM	99306
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99306
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99306
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99306
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99306

Analysis Batch: 99545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Total/NA	Solid	8015 NM	
880-52810-2	CS-13 (1.5')	Total/NA	Solid	8015 NM	
880-52810-3	SW-14 (1.5')	Total/NA	Solid	8015 NM	
880-52810-4	SW-15 (1.5')	Total/NA	Solid	8015 NM	
880-52810-5	SW-16 (1.5')	Total/NA	Solid	8015 NM	
880-52810-6	SW-17 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Soluble	Solid	DI Leach	
880-52810-2	CS-13 (1.5')	Soluble	Solid	DI Leach	
880-52810-3	SW-14 (1.5')	Soluble	Solid	DI Leach	
880-52810-4	SW-15 (1.5')	Soluble	Solid	DI Leach	
880-52810-5	SW-16 (1.5')	Soluble	Solid	DI Leach	
880-52810-6	SW-17 (1.5')	Soluble	Solid	DI Leach	
MB 880-99437/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99437/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99437/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52810-1 MS	CS-12 (1.5')	Soluble	Solid	DI Leach	
880-52810-1 MSD	CS-12 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 99438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52810-1	CS-12 (1.5')	Soluble	Solid	300.0	99437
880-52810-2	CS-13 (1.5')	Soluble	Solid	300.0	99437
880-52810-3	SW-14 (1.5')	Soluble	Solid	300.0	99437
880-52810-4	SW-15 (1.5')	Soluble	Solid	300.0	99437
880-52810-5	SW-16 (1.5')	Soluble	Solid	300.0	99437
880-52810-6	SW-17 (1.5')	Soluble	Solid	300.0	99437
MB 880-99437/1-A	Method Blank	Soluble	Solid	300.0	99437
LCS 880-99437/2-A	Lab Control Sample	Soluble	Solid	300.0	99437
LCSD 880-99437/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99437
880-52810-1 MS	CS-12 (1.5')	Soluble	Solid	300.0	99437
880-52810-1 MSD	CS-12 (1.5')	Soluble	Solid	300.0	99437

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: CS-12 (1.5')

Lab Sample ID: 880-52810-1
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 14:24	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			99545	01/03/25 18:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 18:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 03:07	CH	EET MID

Client Sample ID: CS-13 (1.5')

Lab Sample ID: 880-52810-2
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 14:45	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			99545	01/03/25 18:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 18:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 03:25	CH	EET MID

Client Sample ID: SW-14 (1.5')

Lab Sample ID: 880-52810-3
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 15:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			99545	01/03/25 18:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 18:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 03:31	CH	EET MID

Client Sample ID: SW-15 (1.5')

Lab Sample ID: 880-52810-4
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 15:26	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 15:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Client Sample ID: SW-15 (1.5')

Lab Sample ID: 880-52810-4
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99545	01/03/25 19:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 19:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 03:49	CH	EET MID

Client Sample ID: SW-16 (1.5')

Lab Sample ID: 880-52810-5
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 15:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99545	01/03/25 19:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 19:22	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 03:54	CH	EET MID

Client Sample ID: SW-17 (1.5')

Lab Sample ID: 880-52810-6
Matrix: Solid
Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99435	01/03/25 12:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 16:07	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99562	01/03/25 16:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			99545	01/03/25 19:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99306	01/03/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 19:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99437	01/03/25 12:59	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99438	01/04/25 04:00	CH	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
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: Ogopogo Federal Com #422H

Job ID: 880-52810-1
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52810-1	CS-12 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39
880-52810-2	CS-13 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39
880-52810-3	SW-14 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39
880-52810-4	SW-15 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39
880-52810-5	SW-16 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39
880-52810-6	SW-17 (1.5')	Solid	01/02/25 00:00	01/03/25 11:39

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Chain of Custody

W

880-52810 Chain of Custody

1/6/2025

Page __1__ of __1__

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988 Email:	ThielkeA@Carmonaresources.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	72 Hour
Sampler's Name:	JR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-9.1
Total Containers:		Corrected Temperature:	-9.2

ANALYSIS REQUEST

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
CS-12 (1.5')	1/2/2025		X		Comp	1		X	X	X		
CS-13 (1.5')	1/2/2025		X		Comp	1		X	X	X		
SW-14 (1.5')	1/2/2025		X		Comp	1		X	X	X		
SW-15 (1.5')	1/2/2025		X		Comp	1		X	X	X		
SW-16 (1.5')	1/2/2025		X		Comp	1		X	X	X		
SW-17 (1.5')	1/2/2025		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		010325	2		
3		1139	4		
5			6		

Revised Date 05012020 Rev. 2020.1

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Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52810-1
SDG Number: Eddy Co NM

Login Number: 52810
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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.	True	
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 10:55:03 AM

JOB DESCRIPTION

Ogopogo Federal Com #422H
Eddy Co, NM

JOB NUMBER

880-52908-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 2/12/2025 2:05:22 PM

my EOL

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
1/8/2025 10:55:03 AM

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

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Laboratory Job ID: 880-52908-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi 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.

HPLC/IC

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Ogopogo Federal Com #422H

Job ID: 880-52908-1

Job ID: 880-52908-1 Eurofins Midland

Job Narrative
880-52908-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/7/2025 9:26 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW-16 (1.5') (880-52908-1).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-16 (1.5') (880-52908-1). Percent recoveries are based on the amount spiked.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99593 and analytical batch 880-99699 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.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Client Sample ID: SW-16 (1.5')

Date Collected: 01/06/25 00:00
Date Received: 01/07/25 09:26

Lab Sample ID: 880-52908-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:06	01/07/25 18:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:06	01/07/25 18:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:06	01/07/25 18:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:06	01/07/25 18:58	1
o-Xylene	**0.00878**		0.00199		mg/Kg		01/07/25 10:06	01/07/25 18:58	1
Xylenes, Total	**0.00878**		0.00398		mg/Kg		01/07/25 10:06	01/07/25 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/07/25 10:06*	*01/07/25 18:58*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/07/25 10:06*	*01/07/25 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00878**		0.00398		mg/Kg			01/07/25 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:03	01/07/25 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*01/07/25 16:03*	*01/07/25 20:30*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*01/07/25 16:03*	*01/07/25 20:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**471**	**F1**	10.0		mg/Kg			01/08/25 00:37	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, 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)										
880-52908-1	SW-16 (1.5')	112	101										
890-7542-A-1-B MS	Matrix Spike	112	102										
890-7542-A-1-C MSD	Matrix Spike Duplicate	116	102										
LCS 880-99630/1-A	Lab Control Sample	113	102										
LCSD 880-99630/2-A	Lab Control Sample Dup	115	102										
MB 880-99630/5-A	Method Blank	109	102										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-52908-1	SW-16 (1.5')	68 S1-	67 S1-										
890-7543-A-1-E MS	Matrix Spike	79	75										
890-7543-A-1-F MSD	Matrix Spike Duplicate	80	76										
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128										
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130										
MB 880-99667/1-A	Method Blank	107	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99630/5-A
Matrix: Solid
Analysis Batch: 99626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/07/25 08:40*	*01/07/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/07/25 08:40*	*01/07/25 11:14*	*1*

Lab Sample ID: LCS 880-99630/1-A
Matrix: Solid
Analysis Batch: 99626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1022		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2079		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-99630/2-A
Matrix: Solid
Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7542-A-1-B MS
Matrix: Solid
Analysis Batch: 99626

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130
Toluene	<0.00200	U	0.100	0.1041		mg/Kg		104	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7542-A-1-B MS | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99626 | **Prep Batch: 99630**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2098		mg/Kg		105	70 - 130
o-Xylene	<0.00200	U	0.100	0.1076		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7542-A-1-C MSD | **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99626 | **Prep Batch: 99630**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1070		mg/Kg		107	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.1047		mg/Kg		105	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1038		mg/Kg		104	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2114		mg/Kg		106	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1082		mg/Kg		108	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-99667/1-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99655 | **Prep Batch: 99667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/07/25 10:51*	*01/07/25 18:47*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/07/25 10:51*	*01/07/25 18:47*	*1*

Lab Sample ID: LCS 880-99667/2-A | **Client Sample ID: Lab Control Sample**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99655 | **Prep Batch: 99667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-99667/2-A
Matrix: Solid
Analysis Batch: 99655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99667

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: LCSD 880-99667/3-A
Matrix: Solid
Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99667

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1280		mg/Kg		128	70 - 130	5	20

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

Lab Sample ID: 890-7543-A-1-E MS
Matrix: Solid
Analysis Batch: 99655

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	838.4		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	997	837.3		mg/Kg		84	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 890-7543-A-1-F MSD
Matrix: Solid
Analysis Batch: 99655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	859.1		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	997	866.2		mg/Kg		87	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	76		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99593/1-A
Matrix: Solid
Analysis Batch: 99699

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/07/25 22:40	1

Lab Sample ID: LCS 880-99593/2-A
Matrix: Solid
Analysis Batch: 99699

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	271.5		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-99593/3-A
Matrix: Solid
Analysis Batch: 99699

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	264.0		mg/Kg		106	90 - 110	3	20

Lab Sample ID: 880-52908-1 MS
Matrix: Solid
Analysis Batch: 99699

Client Sample ID: SW-16 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	471	F1	251	774.7	F1	mg/Kg		121	90 - 110		

Lab Sample ID: 880-52908-1 MSD
Matrix: Solid
Analysis Batch: 99699

Client Sample ID: SW-16 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	471	F1	251	758.1	F1	mg/Kg		114	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	8021B	99630
MB 880-99630/5-A	Method Blank	Total/NA	Solid	8021B	99630
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	8021B	99630
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99630
890-7542-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	99630
890-7542-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99630

Prep Batch: 99630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	5035	
MB 880-99630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7542-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7542-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	99667
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Soluble	Solid	DI Leach	
MB 880-99593/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 99593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1 MS	SW-16 (1.5')	Soluble	Solid	DI Leach	
880-52908-1 MSD	SW-16 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 99699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52908-1	SW-16 (1.5')	Soluble	Solid	300.0	99593
MB 880-99593/1-A	Method Blank	Soluble	Solid	300.0	99593
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	300.0	99593
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99593
880-52908-1 MS	SW-16 (1.5')	Soluble	Solid	300.0	99593
880-52908-1 MSD	SW-16 (1.5')	Soluble	Solid	300.0	99593

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Client Sample ID: SW-16 (1.5')

Date Collected: 01/06/25 00:00
Date Received: 01/07/25 09:26

Lab Sample ID: 880-52908-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99630	01/07/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99626	01/07/25 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99791	01/07/25 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			99770	01/07/25 20:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 20:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 00:37	CH	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
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: Ogopogo Federal Com #422H

Job ID: 880-52908-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52908-1	SW-16 (1.5')	Solid	01/06/25 00:00	01/07/25 09:26

Released to Imaging: 2/12/2025 2:05:22 PM
Received by OCD: 2/12/2025 11:05:06 AM

Chain of Custody

880-52908 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	72 Hour
Sampler's Name:	JR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.1

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD
SW-16 (1.5')	1/6/2025		X		Comp	1		X	X	X	

Parameters

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2S0_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/7/25 0926	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52908-1
SDG Number: Eddy Co, NM

Login Number: 52908
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

DL 10 15 Ogopogo Fed Com #422H
Lea Co, NM

JOB NUMBER

880-53042-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

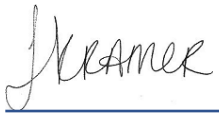
Eurofins Midland

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



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

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Laboratory Job ID: 880-53042-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-53042-1
Project/Site: DL 10 15 Ogopogo Fed Com #422H SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-53042-1
Project: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1 Eurofins Midland

Job Narrative
880-53042-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/9/2025 4:00 PM. 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 -6.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-14 (3') (880-53042-1), CS-15 (3') (880-53042-2), CS-16 (3') (880-53042-3), CS-17 (3') (880-53042-4), CS-18 (4') (880-53042-5), SW-18 (3') (880-53042-6), SW-19 (3') (880-53042-7), SW-20 (3') (880-53042-8), SW-21 (3/4') (880-53042-9), SW-22 (4') (880-53042-10), SW-23 (4') (880-53042-11) and SW-24 (4') (880-53042-12).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-99928 and analytical batch 880-99757 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-18 (4') (880-53042-5). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics
Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-99917 and analytical batch 880-99934 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). These analytes were biased low in the LCSD and were within control limits for the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99917 and analytical batch 880-99934 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.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-16 (3') (880-53042-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-17 (3') (880-53042-4). Percent recoveries are based on the amount spiked.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99984 and analytical batch 880-99998 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.

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Case Narrative

Client: Carmona Resources Job ID: 880-53042-1
Project: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1 (Continued) Eurofins Midland

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

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-14 (3')

Lab Sample ID: 880-53042-1
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 11:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 11:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 11:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 11:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 11:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/25 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:02*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**	**F1**	10.0		mg/Kg			01/10/25 09:10	1

Client Sample ID: CS-15 (3')

Lab Sample ID: 880-53042-2
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 11:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 11:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 11:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/10/25 08:19	01/10/25 11:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 11:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/25 08:19	01/10/25 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:48*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-15 (3')

Lab Sample ID: 880-53042-2
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/25 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:17*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		10.0		mg/Kg			01/10/25 09:27	1

Client Sample ID: CS-16 (3')

Lab Sample ID: 880-53042-3
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 12:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 12:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/10/25 08:19*	*01/10/25 12:09*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/10/25 08:19*	*01/10/25 12:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/10/25 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/09/25 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		01/09/25 16:13	01/09/25 17:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U *- *1	49.7		mg/Kg		01/09/25 16:13	01/09/25 17:33	1

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-16 (3')

Lab Sample ID: 880-53042-3
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/09/25 16:13	01/09/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:33*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*01/09/25 16:13*	*01/09/25 17:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		10.1		mg/Kg			01/10/25 09:33	1

Client Sample ID: CS-17 (3')

Lab Sample ID: 880-53042-4
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 12:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 12:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 12:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/10/25 08:19	01/10/25 12:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 12:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/25 08:19	01/10/25 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/10/25 08:19*	*01/10/25 12:29*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/10/25 08:19*	*01/10/25 12:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/25 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/09/25 16:13*	*01/09/25 17:49*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*01/09/25 16:13*	*01/09/25 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**955**		10.0		mg/Kg			01/10/25 09:39	1

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-18 (4')

Lab Sample ID: 880-53042-5
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:22	01/10/25 11:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:22	01/10/25 11:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:22	01/10/25 11:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/25 08:22	01/10/25 11:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:22	01/10/25 11:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/25 08:22	01/10/25 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*01/10/25 08:22*	*01/10/25 11:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/10/25 08:22*	*01/10/25 11:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/25 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:04*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**456**		9.98		mg/Kg			01/10/25 09:44	1

Client Sample ID: SW-18 (3')

Lab Sample ID: 880-53042-6
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 11:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 11:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 11:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/10/25 08:22	01/10/25 11:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 11:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/25 08:22	01/10/25 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*01/10/25 08:22*	*01/10/25 11:59*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/10/25 08:22*	*01/10/25 11:59*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-18 (3')

Lab Sample ID: 880-53042-6
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/25 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 18:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		01/09/25 16:13	01/09/25 18:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:21*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**434**		10.0		mg/Kg			01/10/25 10:01	1

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53042-7
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 12:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 12:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 12:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/25 08:22	01/10/25 12:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 12:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/25 08:22	01/10/25 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/10/25 08:22*	*01/10/25 12:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/10/25 08:22*	*01/10/25 12:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/10/25 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53042-7
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:02*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		10.0		mg/Kg			01/10/25 10:07	1

Client Sample ID: SW-20 (3')

Lab Sample ID: 880-53042-8
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 12:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 12:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 12:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/10/25 08:22	01/10/25 12:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:22	01/10/25 12:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/25 08:22	01/10/25 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/10/25 08:22*	*01/10/25 12:40*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/10/25 08:22*	*01/10/25 12:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/25 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:17*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.96		mg/Kg			01/10/25 10:13	1

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-21 (3/4')

Lab Sample ID: 880-53042-9
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/25 16:31	01/09/25 19:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/25 16:31	01/09/25 19:09	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		01/09/25 16:31	01/09/25 19:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/09/25 16:31	01/09/25 19:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/25 16:31	01/09/25 19:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/09/25 16:31	01/09/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:09*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/09/25 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:33*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.3**		9.94		mg/Kg			01/10/25 10:18	1

Client Sample ID: SW-22 (4')

Lab Sample ID: 880-53042-10
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 19:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 19:29	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/09/25 16:31	01/09/25 19:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/25 16:31	01/09/25 19:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 19:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/25 16:31	01/09/25 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:29*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:29*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-22 (4')

Lab Sample ID: 880-53042-10
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/25 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 16:13	01/09/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:49*	*1*
o-Terphenyl	*90*		*70 - 130*	*01/09/25 16:13*	*01/09/25 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**498**		10.0		mg/Kg			01/10/25 10:24	1

Client Sample ID: SW-23 (4')

Lab Sample ID: 880-53042-11
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/25 16:31	01/09/25 19:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/25 16:31	01/09/25 19:50	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/09/25 16:31	01/09/25 19:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/25 16:31	01/09/25 19:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/25 16:31	01/09/25 19:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/25 16:31	01/09/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/09/25 16:31*	*01/09/25 19:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/25 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-23 (4')

Lab Sample ID: 880-53042-11
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 16:13	01/09/25 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:04*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.6**	**F1**	10.0		mg/Kg			01/10/25 10:30	1

Client Sample ID: SW-24 (4')

Lab Sample ID: 880-53042-12
Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 20:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 20:10	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/09/25 16:31	01/09/25 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/25 16:31	01/09/25 20:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 16:31	01/09/25 20:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/25 16:31	01/09/25 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/09/25 16:31*	*01/09/25 20:10*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/09/25 16:31*	*01/09/25 20:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/25 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**292**		49.9		mg/Kg			01/09/25 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/09/25 16:13	01/09/25 18:21	1
Diesel Range Organics (Over C10-C28)	**292**		49.9		mg/Kg		01/09/25 16:13	01/09/25 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/25 16:13	01/09/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:21*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/09/25 16:13*	*01/09/25 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**472**		10.0		mg/Kg			01/10/25 10:47	1

Surrogate Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53042-1	CS-14 (3')	125	84
880-53042-1 MS	CS-14 (3')	94	94
880-53042-1 MSD	CS-14 (3')	120	89
880-53042-2	CS-15 (3')	112	91
880-53042-3	CS-16 (3')	109	88
880-53042-4	CS-17 (3')	114	90
880-53042-5	CS-18 (4')	137 S1+	98
880-53042-5 MS	CS-18 (4')	125	97
880-53042-5 MSD	CS-18 (4')	124	97
880-53042-6	SW-18 (3')	127	98
880-53042-7	SW-19 (3')	129	97
880-53042-8	SW-20 (3')	130	95
880-53042-9	SW-21 (3/4')	96	93
880-53042-10	SW-22 (4')	98	94
880-53042-11	SW-23 (4')	99	94
880-53042-12	SW-24 (4')	94	92
890-7552-A-1-A MS	Matrix Spike	116	101
890-7552-A-1-B MSD	Matrix Spike Duplicate	117	102
LCS 880-100001/1-A	Lab Control Sample	93	91
LCS 880-100002/1-A	Lab Control Sample	119	96
LCS 880-99928/1-A	Lab Control Sample	126	103
LCSD 880-100001/2-A	Lab Control Sample Dup	96	93
LCSD 880-100002/2-A	Lab Control Sample Dup	118	96
LCSD 880-99928/2-A	Lab Control Sample Dup	117	102
MB 880-100001/5-A	Method Blank	109	81
MB 880-100002/5-A	Method Blank	119	89
MB 880-99928/5-A	Method Blank	88	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53042-1	CS-14 (3')	76	74
880-53042-2	CS-15 (3')	77	74
880-53042-3	CS-16 (3')	73	69 S1-
880-53042-4	CS-17 (3')	67 S1-	62 S1-
880-53042-5	CS-18 (4')	86	80
880-53042-6	SW-18 (3')	78	74
880-53042-7	SW-19 (3')	94	94
880-53042-8	SW-20 (3')	104	103
880-53042-9	SW-21 (3/4')	98	98
880-53042-10	SW-22 (4')	89	90
880-53042-11	SW-23 (4')	98	97
880-53042-12	SW-24 (4')	94	92

Surrogate Summary

Client: Carmona Resources Job ID: 880-53042-1
Project/Site: DL 10 15 Ogopogo Fed Com #422H SDG: Lea Co, NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-7553-A-11-F MS	Matrix Spike	66 S1-	65 S1-										
890-7553-A-11-G MSD	Matrix Spike Duplicate	78	66 S1-										
890-7553-A-16-D MS	Matrix Spike	85	88										
890-7553-A-16-E MSD	Matrix Spike Duplicate	87	90										
LCS 880-99917/2-A	Lab Control Sample	107	109										
LCS 880-99918/2-A	Lab Control Sample	97	105										
LCSD 880-99917/3-A	Lab Control Sample Dup	72	73										
LCSD 880-99918/3-A	Lab Control Sample Dup	99	106										
MB 880-99917/1-A	Method Blank	88	85										
MB 880-99918/1-A	Method Blank	120	122										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100001/5-A
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/25 08:19	01/10/25 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:06*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/10/25 08:19*	*01/10/25 11:06*	*1*

Lab Sample ID: LCS 880-100001/1-A
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100001

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09742		mg/Kg		97	70 - 130		
Toluene			0.100	0.1026		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.09322		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1873		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09450		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-100001/2-A
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1004		mg/Kg		100	70 - 130	3	35
Toluene			0.100	0.1044		mg/Kg		104	70 - 130	2	35
Ethylbenzene			0.100	0.09562		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1928		mg/Kg		96	70 - 130	3	35
o-Xylene			0.100	0.09698		mg/Kg		97	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-53042-1 MS
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: CS-14 (3')
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0992	0.09627		mg/Kg		97	70 - 130		
Toluene	<0.00199	U	0.0992	0.09749		mg/Kg		98	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-53042-1 MS
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: CS-14 (3')
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0992	0.08729		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1753		mg/Kg		88	70 - 130
o-Xylene	<0.00199	U	0.0992	0.08781		mg/Kg		89	70 - 130

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

Lab Sample ID: 880-53042-1 MSD
Matrix: Solid
Analysis Batch: 99896

Client Sample ID: CS-14 (3')
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08952		mg/Kg		89	70 - 130	7	35
Toluene	<0.00199	U	0.100	0.1091		mg/Kg		109	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.100	0.1071		mg/Kg		107	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2204		mg/Kg		110	70 - 130	23	35
o-Xylene	<0.00199	U	0.100	0.1072		mg/Kg		107	70 - 130	20	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 880-100002/5-A
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/25 08:22	01/10/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:22	01/10/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/25 08:22	01/10/25 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/10/25 08:22*	*01/10/25 11:17*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/10/25 08:22*	*01/10/25 11:17*	*1*

Lab Sample ID: LCS 880-100002/1-A
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1059		mg/Kg		106	70 - 130
Toluene	0.100	0.1016		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1047		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2119		mg/Kg		106	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-100002/1-A
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100002

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1076		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-100002/2-A
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100002

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1078		mg/Kg		108	70 - 130	2	35
Toluene			0.100	0.1033		mg/Kg		103	70 - 130	2	35
Ethylbenzene			0.100	0.1060		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2138		mg/Kg		107	70 - 130	1	35
o-Xylene			0.100	0.1090		mg/Kg		109	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-53042-5 MS
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: CS-18 (4')
Prep Type: Total/NA
Prep Batch: 100002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0992	0.1144		mg/Kg		115	70 - 130		
Toluene	<0.00199	U	0.0992	0.1085		mg/Kg		109	70 - 130		
Ethylbenzene	<0.00199	U	0.0992	0.1118		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2259		mg/Kg		114	70 - 130		
o-Xylene	<0.00199	U	0.0992	0.1139		mg/Kg		115	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-53042-5 MSD
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: CS-18 (4')
Prep Type: Total/NA
Prep Batch: 100002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1137		mg/Kg		113	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.1058		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.1047		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2090		mg/Kg		104	70 - 130	8	35
o-Xylene	<0.00199	U	0.100	0.1055		mg/Kg		105	70 - 130	8	35

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-53042-5 MSD
Matrix: Solid
Analysis Batch: 99897

Client Sample ID: CS-18 (4')
Prep Type: Total/NA
Prep Batch: 100002

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-99928/5-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/09/25 10:31	01/09/25 12:16	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/09/25 10:31	01/09/25 12:16	1

Lab Sample ID: LCS 880-99928/1-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1075		mg/Kg		107	70 - 130		
Toluene			0.100	0.1087		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1353	*+	mg/Kg		135	70 - 130		
m-Xylene & p-Xylene			0.200	0.2606		mg/Kg		130	70 - 130		
o-Xylene			0.100	0.1271		mg/Kg		127	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-99928/2-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99928

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1028		mg/Kg		103	70 - 130	4	35
Toluene			0.100	0.1048		mg/Kg		105	70 - 130	4	35
Ethylbenzene			0.100	0.1169		mg/Kg		117	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2168		mg/Kg		108	70 - 130	18	35
o-Xylene			0.100	0.1066		mg/Kg		107	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-99928/2-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99928

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

Lab Sample ID: 890-7552-A-1-A MS
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.1013		mg/Kg		102	70 - 130
Toluene	<0.00199	U	0.0992	0.1029		mg/Kg		104	70 - 130
Ethylbenzene	<0.00199	U *+	0.0992	0.1275		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2475		mg/Kg		125	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1202		mg/Kg		121	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-7552-A-1-B MSD
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1058		mg/Kg		105	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.1083		mg/Kg		108	70 - 130	5	35
Ethylbenzene	<0.00199	U *+	0.100	0.1146		mg/Kg		114	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2573		mg/Kg		128	70 - 130	4	35
o-Xylene	<0.00199	U	0.100	0.1254		mg/Kg		125	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-99917/1-A
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 10:15	01/09/25 10:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 10:15	01/09/25 10:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:15	01/09/25 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/09/25 10:15	01/09/25 10:38	1
o-Terphenyl	85		70 - 130	01/09/25 10:15	01/09/25 10:38	1

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-99917/2-A
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1019		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-99917/3-A
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99917

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	745.3	*1	mg/Kg		75	70 - 130	35	20
Diesel Range Organics (Over C10-C28)			1000	688.5	*- *1	mg/Kg		69	70 - 130	39	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*72*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-7553-A-11-F MS
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	996	617.8	F1	mg/Kg		62	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1 F1	996	634.7	F1	mg/Kg		62	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*66*	*S1-*	*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

Lab Sample ID: 890-7553-A-11-G MSD
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	996	617.3	F1	mg/Kg		62	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1 F1	996	609.8	F1	mg/Kg		59	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-7553-A-11-G MSD
Matrix: Solid
Analysis Batch: 99934

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99917

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: MB 880-99918/1-A
Matrix: Solid
Analysis Batch: 99936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 10:17	01/09/25 10:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 10:17	01/09/25 10:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:17	01/09/25 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	01/09/25 10:17	01/09/25 10:38	1
o-Terphenyl	122		70 - 130	01/09/25 10:17	01/09/25 10:38	1

Lab Sample ID: LCS 880-99918/2-A
Matrix: Solid
Analysis Batch: 99936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99918

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	934.4		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	954.0		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-99918/3-A
Matrix: Solid
Analysis Batch: 99936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99918

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	959.7		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	991.5		mg/Kg		99	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-7553-A-16-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99936 — **Prep Batch: 99918**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	748.9		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	870.8		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 890-7553-A-16-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99936 — **Prep Batch: 99918**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	805.8		mg/Kg		81	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	941.5		mg/Kg		94	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99984/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/10/25 08:53	1

Lab Sample ID: LCS 880-99984/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-99984/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	266.6		mg/Kg		107	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-53042-1 MS — **Client Sample ID: CS-14 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	329	F1	250	676.7	F1	mg/Kg		139	90 - 110

Lab Sample ID: 880-53042-1 MSD — **Client Sample ID: CS-14 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	329	F1	250	678.2	F1	mg/Kg		140	90 - 110	0	20

Lab Sample ID: 880-53042-11 MS — **Client Sample ID: SW-23 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	66.6	F1	250	407.9	F1	mg/Kg		137	90 - 110

Lab Sample ID: 880-53042-11 MSD — **Client Sample ID: SW-23 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.6	F1	250	408.0	F1	mg/Kg		137	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 99757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-9	SW-21 (3/4')	Total/NA	Solid	8021B	99928
880-53042-10	SW-22 (4')	Total/NA	Solid	8021B	99928
880-53042-11	SW-23 (4')	Total/NA	Solid	8021B	99928
880-53042-12	SW-24 (4')	Total/NA	Solid	8021B	99928
MB 880-99928/5-A	Method Blank	Total/NA	Solid	8021B	99928
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	8021B	99928
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99928
890-7552-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	99928
890-7552-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99928

Analysis Batch: 99896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	8021B	100001
880-53042-2	CS-15 (3')	Total/NA	Solid	8021B	100001
880-53042-3	CS-16 (3')	Total/NA	Solid	8021B	100001
880-53042-4	CS-17 (3')	Total/NA	Solid	8021B	100001
MB 880-100001/5-A	Method Blank	Total/NA	Solid	8021B	100001
LCS 880-100001/1-A	Lab Control Sample	Total/NA	Solid	8021B	100001
LCSD 880-100001/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100001
880-53042-1 MS	CS-14 (3')	Total/NA	Solid	8021B	100001
880-53042-1 MSD	CS-14 (3')	Total/NA	Solid	8021B	100001

Analysis Batch: 99897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-5	CS-18 (4')	Total/NA	Solid	8021B	100002
880-53042-6	SW-18 (3')	Total/NA	Solid	8021B	100002
880-53042-7	SW-19 (3')	Total/NA	Solid	8021B	100002
880-53042-8	SW-20 (3')	Total/NA	Solid	8021B	100002
MB 880-100002/5-A	Method Blank	Total/NA	Solid	8021B	100002
LCS 880-100002/1-A	Lab Control Sample	Total/NA	Solid	8021B	100002
LCSD 880-100002/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100002
880-53042-5 MS	CS-18 (4')	Total/NA	Solid	8021B	100002
880-53042-5 MSD	CS-18 (4')	Total/NA	Solid	8021B	100002

Prep Batch: 99928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-9	SW-21 (3/4')	Total/NA	Solid	5035	
880-53042-10	SW-22 (4')	Total/NA	Solid	5035	
880-53042-11	SW-23 (4')	Total/NA	Solid	5035	
880-53042-12	SW-24 (4')	Total/NA	Solid	5035	
MB 880-99928/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7552-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7552-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 100001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	5035	
880-53042-2	CS-15 (3')	Total/NA	Solid	5035	
880-53042-3	CS-16 (3')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

GC VOA (Continued)

Prep Batch: 100001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-4	CS-17 (3')	Total/NA	Solid	5035	
MB 880-100001/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100001/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100001/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53042-1 MS	CS-14 (3')	Total/NA	Solid	5035	
880-53042-1 MSD	CS-14 (3')	Total/NA	Solid	5035	

Prep Batch: 100002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-5	CS-18 (4')	Total/NA	Solid	5035	
880-53042-6	SW-18 (3')	Total/NA	Solid	5035	
880-53042-7	SW-19 (3')	Total/NA	Solid	5035	
880-53042-8	SW-20 (3')	Total/NA	Solid	5035	
MB 880-100002/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100002/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100002/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53042-5 MS	CS-18 (4')	Total/NA	Solid	5035	
880-53042-5 MSD	CS-18 (4')	Total/NA	Solid	5035	

Analysis Batch: 100019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	Total BTEX	
880-53042-2	CS-15 (3')	Total/NA	Solid	Total BTEX	
880-53042-3	CS-16 (3')	Total/NA	Solid	Total BTEX	
880-53042-4	CS-17 (3')	Total/NA	Solid	Total BTEX	
880-53042-5	CS-18 (4')	Total/NA	Solid	Total BTEX	
880-53042-6	SW-18 (3')	Total/NA	Solid	Total BTEX	
880-53042-7	SW-19 (3')	Total/NA	Solid	Total BTEX	
880-53042-8	SW-20 (3')	Total/NA	Solid	Total BTEX	
880-53042-9	SW-21 (3/4')	Total/NA	Solid	Total BTEX	
880-53042-10	SW-22 (4')	Total/NA	Solid	Total BTEX	
880-53042-11	SW-23 (4')	Total/NA	Solid	Total BTEX	
880-53042-12	SW-24 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	8015NM Prep	
880-53042-2	CS-15 (3')	Total/NA	Solid	8015NM Prep	
880-53042-3	CS-16 (3')	Total/NA	Solid	8015NM Prep	
880-53042-4	CS-17 (3')	Total/NA	Solid	8015NM Prep	
880-53042-5	CS-18 (4')	Total/NA	Solid	8015NM Prep	
880-53042-6	SW-18 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99917/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99917/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99917/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7553-A-11-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7553-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 99918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-7	SW-19 (3')	Total/NA	Solid	8015NM Prep	
880-53042-8	SW-20 (3')	Total/NA	Solid	8015NM Prep	
880-53042-9	SW-21 (3/4')	Total/NA	Solid	8015NM Prep	
880-53042-10	SW-22 (4')	Total/NA	Solid	8015NM Prep	
880-53042-11	SW-23 (4')	Total/NA	Solid	8015NM Prep	
880-53042-12	SW-24 (4')	Total/NA	Solid	8015NM Prep	
MB 880-99918/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99918/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99918/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7553-A-16-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7553-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	8015B NM	99917
880-53042-2	CS-15 (3')	Total/NA	Solid	8015B NM	99917
880-53042-3	CS-16 (3')	Total/NA	Solid	8015B NM	99917
880-53042-4	CS-17 (3')	Total/NA	Solid	8015B NM	99917
880-53042-5	CS-18 (4')	Total/NA	Solid	8015B NM	99917
880-53042-6	SW-18 (3')	Total/NA	Solid	8015B NM	99917
MB 880-99917/1-A	Method Blank	Total/NA	Solid	8015B NM	99917
LCS 880-99917/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99917
LCSD 880-99917/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99917
890-7553-A-11-F MS	Matrix Spike	Total/NA	Solid	8015B NM	99917
890-7553-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99917

Analysis Batch: 99936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-7	SW-19 (3')	Total/NA	Solid	8015B NM	99918
880-53042-8	SW-20 (3')	Total/NA	Solid	8015B NM	99918
880-53042-9	SW-21 (3/4')	Total/NA	Solid	8015B NM	99918
880-53042-10	SW-22 (4')	Total/NA	Solid	8015B NM	99918
880-53042-11	SW-23 (4')	Total/NA	Solid	8015B NM	99918
880-53042-12	SW-24 (4')	Total/NA	Solid	8015B NM	99918
MB 880-99918/1-A	Method Blank	Total/NA	Solid	8015B NM	99918
LCS 880-99918/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99918
LCSD 880-99918/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99918
890-7553-A-16-D MS	Matrix Spike	Total/NA	Solid	8015B NM	99918
890-7553-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99918

Analysis Batch: 100046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Total/NA	Solid	8015 NM	
880-53042-2	CS-15 (3')	Total/NA	Solid	8015 NM	
880-53042-3	CS-16 (3')	Total/NA	Solid	8015 NM	
880-53042-4	CS-17 (3')	Total/NA	Solid	8015 NM	
880-53042-5	CS-18 (4')	Total/NA	Solid	8015 NM	
880-53042-6	SW-18 (3')	Total/NA	Solid	8015 NM	
880-53042-7	SW-19 (3')	Total/NA	Solid	8015 NM	
880-53042-8	SW-20 (3')	Total/NA	Solid	8015 NM	
880-53042-9	SW-21 (3/4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 100046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-10	SW-22 (4')	Total/NA	Solid	8015 NM	
880-53042-11	SW-23 (4')	Total/NA	Solid	8015 NM	
880-53042-12	SW-24 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Soluble	Solid	DI Leach	
880-53042-2	CS-15 (3')	Soluble	Solid	DI Leach	
880-53042-3	CS-16 (3')	Soluble	Solid	DI Leach	
880-53042-4	CS-17 (3')	Soluble	Solid	DI Leach	
880-53042-5	CS-18 (4')	Soluble	Solid	DI Leach	
880-53042-6	SW-18 (3')	Soluble	Solid	DI Leach	
880-53042-7	SW-19 (3')	Soluble	Solid	DI Leach	
880-53042-8	SW-20 (3')	Soluble	Solid	DI Leach	
880-53042-9	SW-21 (3/4')	Soluble	Solid	DI Leach	
880-53042-10	SW-22 (4')	Soluble	Solid	DI Leach	
880-53042-11	SW-23 (4')	Soluble	Solid	DI Leach	
880-53042-12	SW-24 (4')	Soluble	Solid	DI Leach	
MB 880-99984/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99984/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99984/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53042-1 MS	CS-14 (3')	Soluble	Solid	DI Leach	
880-53042-1 MSD	CS-14 (3')	Soluble	Solid	DI Leach	
880-53042-11 MS	SW-23 (4')	Soluble	Solid	DI Leach	
880-53042-11 MSD	SW-23 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 99998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53042-1	CS-14 (3')	Soluble	Solid	300.0	99984
880-53042-2	CS-15 (3')	Soluble	Solid	300.0	99984
880-53042-3	CS-16 (3')	Soluble	Solid	300.0	99984
880-53042-4	CS-17 (3')	Soluble	Solid	300.0	99984
880-53042-5	CS-18 (4')	Soluble	Solid	300.0	99984
880-53042-6	SW-18 (3')	Soluble	Solid	300.0	99984
880-53042-7	SW-19 (3')	Soluble	Solid	300.0	99984
880-53042-8	SW-20 (3')	Soluble	Solid	300.0	99984
880-53042-9	SW-21 (3/4')	Soluble	Solid	300.0	99984
880-53042-10	SW-22 (4')	Soluble	Solid	300.0	99984
880-53042-11	SW-23 (4')	Soluble	Solid	300.0	99984
880-53042-12	SW-24 (4')	Soluble	Solid	300.0	99984
MB 880-99984/1-A	Method Blank	Soluble	Solid	300.0	99984
LCS 880-99984/2-A	Lab Control Sample	Soluble	Solid	300.0	99984
LCSD 880-99984/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99984
880-53042-1 MS	CS-14 (3')	Soluble	Solid	300.0	99984
880-53042-1 MSD	CS-14 (3')	Soluble	Solid	300.0	99984
880-53042-11 MS	SW-23 (4')	Soluble	Solid	300.0	99984
880-53042-11 MSD	SW-23 (4')	Soluble	Solid	300.0	99984

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-14 (3')

Lab Sample ID: 880-53042-1
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 11:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 11:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 17:02	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 09:10	CH	EET MID

Client Sample ID: CS-15 (3')

Lab Sample ID: 880-53042-2
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 11:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 17:17	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 09:27	CH	EET MID

Client Sample ID: CS-16 (3')

Lab Sample ID: 880-53042-3
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 17:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 09:33	CH	EET MID

Client Sample ID: CS-17 (3')

Lab Sample ID: 880-53042-4
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 12:29	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: CS-17 (3')

Lab Sample ID: 880-53042-4
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 17:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 09:39	CH	EET MID

Client Sample ID: CS-18 (4')

Lab Sample ID: 880-53042-5
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100002	01/10/25 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99897	01/10/25 11:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 11:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 18:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 09:44	CH	EET MID

Client Sample ID: SW-18 (3')

Lab Sample ID: 880-53042-6
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100002	01/10/25 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99897	01/10/25 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99917	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99934	01/09/25 18:21	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:01	CH	EET MID

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53042-7
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100002	01/10/25 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99897	01/10/25 12:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 12:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 17:02	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53042-7
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:07	CH	EET MID

Client Sample ID: SW-20 (3')

Lab Sample ID: 880-53042-8
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100002	01/10/25 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99897	01/10/25 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/10/25 12:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 17:17	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:13	CH	EET MID

Client Sample ID: SW-21 (3/4')

Lab Sample ID: 880-53042-9
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99928	01/09/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/09/25 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 17:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:18	CH	EET MID

Client Sample ID: SW-22 (4')

Lab Sample ID: 880-53042-10
Matrix: Solid
Date Collected: 01/08/25 00:00
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99928	01/09/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 19:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/09/25 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 17:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 17:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:24	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Client Sample ID: SW-23 (4')

Lab Sample ID: 880-53042-11

Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99928	01/09/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/09/25 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 18:04	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:30	CH	EET MID

Client Sample ID: SW-24 (4')

Lab Sample ID: 880-53042-12

Date Collected: 01/08/25 00:00
Matrix: Solid
Date Received: 01/09/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99928	01/09/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100019	01/09/25 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			100046	01/09/25 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99918	01/09/25 16:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99936	01/09/25 18:21	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99984	01/09/25 16:29	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99998	01/10/25 10:47	CH	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
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53042-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53042-1	CS-14 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-2	CS-15 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-3	CS-16 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-4	CS-17 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-5	CS-18 (4')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-6	SW-18 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-7	SW-19 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-8	SW-20 (3')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-9	SW-21 (3/4')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-10	SW-22 (4')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-11	SW-23 (4')	Solid	01/08/25 00:00	01/09/25 16:00
880-53042-12	SW-24 (4')	Solid	01/08/25 00:00	01/09/25 16:00

Released to Imaging: 2/12/2025 2:05:22 PM
Received by OCD: 2/12/2025 11:05:06 AM

Chain of Custody

880-53042 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	DL 10 15 Ogopogo Fed Com #422H	Turn Around	☐ Routine ☑ Rush
Project Number:	2543	Due Date:	Rush 24hr
Project Location	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	JR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR5
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-6
Total Containers:		Corrected Temperature:	-6.9

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
CS-14 (3')	1/8/2025		X		Comp	1		X	X	X		
CS-15 (3')	1/8/2025		X		Comp	1		X	X	X		
CS-16 (3')	1/8/2025		X		Comp	1		X	X	X		
CS-17 (3')	1/8/2025		X		Comp	1		X	X	X		
CS-18 (4')	1/8/2025		X		Comp	1		X	X	X		
SW-18 (3')	1/8/2025		X		Comp	1		X	X	X		
SW-19 (3')	1/8/2025		X		Comp	1		X	X	X		
SW-20 (3')	1/8/2025		X		Comp	1		X	X	X		
SW-21 (3/4')	1/8/2025		X		Comp	1		X	X	X		
SW-22 (4')	1/8/2025		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/9/25 1000	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Released to Imaging: 2/12/2025 2:05:22 PM
Received by OCD: 2/12/2025 11:05:06 AM

Chain of Custody

Work Order No: 042

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	DL 10 15 Ogopogo Fed Com #422H	Turn Around	☐ Routine ☑ Rush
Project Number:	2543	Due Date:	Rush 24hr
Project Location	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	JR		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
SW-23 (4')	1/8/2025		X		Comp	1		X	X	X		
SW-24 (4')	1/8/2025		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/9/25 1600	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-53042-1
SDG Number: Lea Co, NM

Login Number: 53042
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/15/2025 11:34:07 AM

JOB DESCRIPTION

DL 10 15 Ogopogo Fed Com #422H
Lea CO, NM

JOB NUMBER

880-53140-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 2/12/2025 2:05:22 PM

my EOL

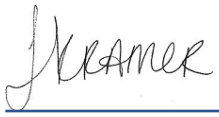
Eurofins Midland

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
1/15/2025 11:34:07 AM

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

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Laboratory Job ID: 880-53140-1
SDG: Lea CO, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1

Job ID: 880-53140-1 Eurofins Midland

Job Narrative
880-53140-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/14/2025 8:55 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 -4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-25 (4') (880-53140-1), CS-17 (3.25') (880-53140-2), SW-19 (3') (880-53140-3) and SW-24 (4') (880-53140-4).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-100203/2-A) and (LCSD 880-100203/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-100206/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-24 (4') (880-53140-4). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-100206 and analytical batch 880-100195 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-100206 and analytical batch 880-100195 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Client Sample ID: SW-25 (4')

Lab Sample ID: 880-53140-1
Date Collected: 01/13/25 00:00
Matrix: Solid
Date Received: 01/14/25 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 16:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 16:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 16:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/14/25 09:00	01/14/25 16:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 16:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/14/25 09:00	01/14/25 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/14/25 09:00*	*01/14/25 16:52*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/14/25 09:00*	*01/14/25 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/14/25 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/14/25 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/14/25 09:22*	*01/14/25 13:56*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/14/25 09:22*	*01/14/25 13:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		10.0		mg/Kg			01/14/25 12:57	1

Client Sample ID: CS-17 (3.25')

Lab Sample ID: 880-53140-2
Date Collected: 01/13/25 00:00
Matrix: Solid
Date Received: 01/14/25 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/14/25 09:00	01/14/25 17:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/14/25 09:00	01/14/25 17:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/14/25 09:00	01/14/25 17:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/14/25 09:00	01/14/25 17:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/14/25 09:00	01/14/25 17:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/14/25 09:00	01/14/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:12*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Client Sample ID: CS-17 (3.25')

Lab Sample ID: 880-53140-2
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/14/25 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/14/25 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/14/25 09:22	01/14/25 14:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/14/25 09:22	01/14/25 14:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/14/25 09:22	01/14/25 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/14/25 09:22*	*01/14/25 14:12*	*1*
o-Terphenyl	*71*		*70 - 130*	*01/14/25 09:22*	*01/14/25 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		10.0		mg/Kg			01/14/25 13:14	1

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53140-3
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/14/25 09:00	01/14/25 17:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/14/25 09:00	01/14/25 17:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/14/25 09:00	01/14/25 17:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/14/25 09:00	01/14/25 17:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/14/25 09:00	01/14/25 17:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/14/25 09:00	01/14/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:33*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/14/25 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/14/25 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1

Client Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53140-3
Date Collected: 01/13/25 00:00
Matrix: Solid
Date Received: 01/14/25 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/14/25 09:22	01/14/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/14/25 09:22*	*01/14/25 13:56*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/14/25 09:22*	*01/14/25 13:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		10.1		mg/Kg			01/14/25 13:20	1

Client Sample ID: SW-24 (4')

Lab Sample ID: 880-53140-4
Date Collected: 01/13/25 00:00
Matrix: Solid
Date Received: 01/14/25 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 17:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 17:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 17:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/14/25 09:00	01/14/25 17:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/14/25 09:00	01/14/25 17:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/14/25 09:00	01/14/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/14/25 09:00*	*01/14/25 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/14/25 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/14/25 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		01/14/25 09:22	01/14/25 14:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1	50.1		mg/Kg		01/14/25 09:22	01/14/25 14:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/14/25 09:22	01/14/25 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/14/25 09:22*	*01/14/25 14:12*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*01/14/25 09:22*	*01/14/25 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		10.1		mg/Kg			01/14/25 13:26	1

Surrogate Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, 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)
880-53140-1	SW-25 (4')	90	88
880-53140-2	CS-17 (3.25')	99	90
880-53140-3	SW-19 (3')	104	90
880-53140-4	SW-24 (4')	97	90
890-7567-A-21-A MS	Matrix Spike	110	105
890-7567-A-21-B MSD	Matrix Spike Duplicate	125	103
LCS 880-100205/1-A	Lab Control Sample	113	97
LCSD 880-100205/2-A	Lab Control Sample Dup	119	103
MB 880-100205/5-A	Method Blank	89	88

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53140-1	SW-25 (4')	75	72
880-53140-2	CS-17 (3.25')	76	71
880-53140-3	SW-19 (3')	79	76
880-53140-4	SW-24 (4')	72	67 S1-
890-7567-A-1-E MS	Matrix Spike	79	73
890-7567-A-1-F MSD	Matrix Spike Duplicate	79	73
890-7567-A-14-B MS	Matrix Spike	82	74
890-7567-A-14-C MSD	Matrix Spike Duplicate	83	76
LCS 880-100203/2-A	Lab Control Sample	145 S1+	130
LCS 880-100206/2-A	Lab Control Sample	93	86
LCSD 880-100203/3-A	Lab Control Sample Dup	132 S1+	121
LCSD 880-100206/3-A	Lab Control Sample Dup	165 S1+	146 S1+
MB 880-100203/1-A	Method Blank	110	111
MB 880-100206/1-A	Method Blank	107	107

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100205/5-A
Matrix: Solid
Analysis Batch: 100000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/25 08:43	01/14/25 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/25 08:43	01/14/25 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/25 08:43	01/14/25 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/14/25 08:43	01/14/25 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/25 08:43	01/14/25 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/25 08:43	01/14/25 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/14/25 08:43*	*01/14/25 11:26*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/14/25 08:43*	*01/14/25 11:26*	*1*

Lab Sample ID: LCS 880-100205/1-A
Matrix: Solid
Analysis Batch: 100000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.1107		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1261		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2455		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-100205/2-A
Matrix: Solid
Analysis Batch: 100000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09451		mg/Kg		95	70 - 130	6	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130	4	35
o-Xylene	0.100	0.1159		mg/Kg		116	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7567-A-21-A MS
Matrix: Solid
Analysis Batch: 100000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 100205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.08880		mg/Kg		90	70 - 130
Toluene	<0.00199	U	0.0992	0.09423		mg/Kg		95	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

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

Lab Sample ID: 890-7567-A-21-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100000 — **Prep Batch: 100205**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0992	0.1061		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2058		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1009		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7567-A-21-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100000 — **Prep Batch: 100205**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1007		mg/Kg		100	70 - 130	13	35
Toluene	<0.00199	U	0.100	0.1025		mg/Kg		102	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.100	0.1122		mg/Kg		112	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2485		mg/Kg		124	70 - 130	19	35
o-Xylene	<0.00199	U	0.100	0.1217		mg/Kg		121	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-100203/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100193 — **Prep Batch: 100203**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/25 08:39	01/14/25 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 08:39	01/14/25 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 08:39	01/14/25 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/14/25 08:39*	*01/14/25 08:41*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/14/25 08:39*	*01/14/25 08:41*	*1*

Lab Sample ID: LCS 880-100203/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100193 — **Prep Batch: 100203**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1239		mg/Kg		124	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

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

Lab Sample ID: LCS 880-100203/2-A
Matrix: Solid
Analysis Batch: 100193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100203

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-100203/3-A
Matrix: Solid
Analysis Batch: 100193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100203

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1017		mg/Kg		102	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1168		mg/Kg		117	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 890-7567-A-1-E MS
Matrix: Solid
Analysis Batch: 100193

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 100203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	845.2		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	832.2		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 890-7567-A-1-F MSD
Matrix: Solid
Analysis Batch: 100193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 100203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	779.6		mg/Kg		78	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	800.3		mg/Kg		80	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	73		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

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

Lab Sample ID: MB 880-100206/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100195 — **Prep Batch: 100206**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/25 08:00	01/14/25 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 08:00	01/14/25 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 08:00	01/14/25 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/14/25 08:00*	*01/14/25 08:41*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/14/25 08:00*	*01/14/25 08:41*	*1*

Lab Sample ID: LCS 880-100206/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100195 — **Prep Batch: 100206**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	901.4		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	874.2		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: LCSD 880-100206/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100195 — **Prep Batch: 100206**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1209	*1	mg/Kg		121	70 - 130	29	20
Diesel Range Organics (Over C10-C28)			1000	1476	*+ *1	mg/Kg		148	70 - 130	51	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*165*	*S1+*	*70 - 130*
o-Terphenyl	*146*	*S1+*	*70 - 130*

Lab Sample ID: 890-7567-A-14-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100195 — **Prep Batch: 100206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	1010	862.0		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1	1010	855.8		mg/Kg		85	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

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

Lab Sample ID: 890-7567-A-14-B MS
Matrix: Solid
Analysis Batch: 100195

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 100206

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-7567-A-14-C MSD
Matrix: Solid
Analysis Batch: 100195

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 100206

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	1010	862.2		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1	1010	903.3		mg/Kg		90	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	76		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100230/1-A
Matrix: Solid
Analysis Batch: 100235

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/14/25 12:39	1

Lab Sample ID: LCS 880-100230/2-A
Matrix: Solid
Analysis Batch: 100235

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.5		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-100230/3-A
Matrix: Solid
Analysis Batch: 100235

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-53140-1 MS
Matrix: Solid
Analysis Batch: 100235

Client Sample ID: SW-25 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	217		251	447.8		mg/Kg		92	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-53140-1 MSD
Matrix: Solid
Analysis Batch: 100235

Client Sample ID: SW-25 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	217		251	444.8		mg/Kg		91	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

GC VOA

Analysis Batch: 100000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	8021B	100205
880-53140-2	CS-17 (3.25')	Total/NA	Solid	8021B	100205
880-53140-3	SW-19 (3')	Total/NA	Solid	8021B	100205
880-53140-4	SW-24 (4')	Total/NA	Solid	8021B	100205
MB 880-100205/5-A	Method Blank	Total/NA	Solid	8021B	100205
LCS 880-100205/1-A	Lab Control Sample	Total/NA	Solid	8021B	100205
LCSD 880-100205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100205
890-7567-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	100205
890-7567-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	100205

Prep Batch: 100205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	5035	
880-53140-2	CS-17 (3.25')	Total/NA	Solid	5035	
880-53140-3	SW-19 (3')	Total/NA	Solid	5035	
880-53140-4	SW-24 (4')	Total/NA	Solid	5035	
MB 880-100205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7567-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7567-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 100307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	Total BTEX	
880-53140-2	CS-17 (3.25')	Total/NA	Solid	Total BTEX	
880-53140-3	SW-19 (3')	Total/NA	Solid	Total BTEX	
880-53140-4	SW-24 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 100193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	8015B NM	100203
880-53140-2	CS-17 (3.25')	Total/NA	Solid	8015B NM	100203
MB 880-100203/1-A	Method Blank	Total/NA	Solid	8015B NM	100203
LCS 880-100203/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100203
LCSD 880-100203/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100203
890-7567-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	100203
890-7567-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	100203

Analysis Batch: 100195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-3	SW-19 (3')	Total/NA	Solid	8015B NM	100206
880-53140-4	SW-24 (4')	Total/NA	Solid	8015B NM	100206
MB 880-100206/1-A	Method Blank	Total/NA	Solid	8015B NM	100206
LCS 880-100206/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100206
LCSD 880-100206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100206
890-7567-A-14-B MS	Matrix Spike	Total/NA	Solid	8015B NM	100206
890-7567-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	100206

QC Association Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

GC Semi VOA

Prep Batch: 100203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	8015NM Prep	
880-53140-2	CS-17 (3.25')	Total/NA	Solid	8015NM Prep	
MB 880-100203/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100203/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100203/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7567-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7567-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 100206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-3	SW-19 (3')	Total/NA	Solid	8015NM Prep	
880-53140-4	SW-24 (4')	Total/NA	Solid	8015NM Prep	
MB 880-100206/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100206/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7567-A-14-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7567-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Total/NA	Solid	8015 NM	
880-53140-2	CS-17 (3.25')	Total/NA	Solid	8015 NM	
880-53140-3	SW-19 (3')	Total/NA	Solid	8015 NM	
880-53140-4	SW-24 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Soluble	Solid	DI Leach	
880-53140-2	CS-17 (3.25')	Soluble	Solid	DI Leach	
880-53140-3	SW-19 (3')	Soluble	Solid	DI Leach	
880-53140-4	SW-24 (4')	Soluble	Solid	DI Leach	
MB 880-100230/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100230/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100230/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53140-1 MS	SW-25 (4')	Soluble	Solid	DI Leach	
880-53140-1 MSD	SW-25 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 100235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53140-1	SW-25 (4')	Soluble	Solid	300.0	100230
880-53140-2	CS-17 (3.25')	Soluble	Solid	300.0	100230
880-53140-3	SW-19 (3')	Soluble	Solid	300.0	100230
880-53140-4	SW-24 (4')	Soluble	Solid	300.0	100230
MB 880-100230/1-A	Method Blank	Soluble	Solid	300.0	100230
LCS 880-100230/2-A	Lab Control Sample	Soluble	Solid	300.0	100230
LCSD 880-100230/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100230
880-53140-1 MS	SW-25 (4')	Soluble	Solid	300.0	100230
880-53140-1 MSD	SW-25 (4')	Soluble	Solid	300.0	100230

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Client Sample ID: SW-25 (4')

Lab Sample ID: 880-53140-1
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	100205	01/14/25 09:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100000	01/14/25 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100307	01/14/25 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			100256	01/14/25 13:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100203	01/14/25 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/14/25 13:56	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100230	01/14/25 10:11	SA	EET MID
Soluble	Analysis	300.0		1			100235	01/14/25 12:57	CH	EET MID

Client Sample ID: CS-17 (3.25')

Lab Sample ID: 880-53140-2
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100205	01/14/25 09:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100000	01/14/25 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100307	01/14/25 17:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			100256	01/14/25 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100203	01/14/25 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/14/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100230	01/14/25 10:11	SA	EET MID
Soluble	Analysis	300.0		1			100235	01/14/25 13:14	CH	EET MID

Client Sample ID: SW-19 (3')

Lab Sample ID: 880-53140-3
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100205	01/14/25 09:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100000	01/14/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100307	01/14/25 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			100256	01/14/25 13:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100206	01/14/25 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/14/25 13:56	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100230	01/14/25 10:11	SA	EET MID
Soluble	Analysis	300.0		1			100235	01/14/25 13:20	CH	EET MID

Client Sample ID: SW-24 (4')

Lab Sample ID: 880-53140-4
Matrix: Solid
Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100205	01/14/25 09:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100000	01/14/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100307	01/14/25 17:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Client Sample ID: SW-24 (4')

Date Collected: 01/13/25 00:00
Date Received: 01/14/25 08:55

Lab Sample ID: 880-53140-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100256	01/14/25 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	100206	01/14/25 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/14/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100230	01/14/25 10:11	SA	EET MID
Soluble	Analysis	300.0		1			100235	01/14/25 13:26	CH	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
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: DL 10 15 Ogopogo Fed Com #422H

Job ID: 880-53140-1
SDG: Lea CO, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53140-1	SW-25 (4')	Solid	01/13/25 00:00	01/14/25 08:55
880-53140-2	CS-17 (3.25')	Solid	01/13/25 00:00	01/14/25 08:55
880-53140-3	SW-19 (3')	Solid	01/13/25 00:00	01/14/25 08:55
880-53140-4	SW-24 (4')	Solid	01/13/25 00:00	01/14/25 08:55

Released to Imaging: 2/12/2025 2:05:22 PM
Received by OCD: 2/12/2025 11:05:06 AM

Chain of Custody

880-53140 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	DL 10 15 Ogopogo Fed Com #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Lea Co, NM	Due Date:	Rush 24hr
Sampler's Name:	JR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Received Intact:	(Yes) No	Thermometer ID:	IR5	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-4.1	
Total Containers:		Corrected Temperature:	-4.2	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
SW-25 (4')	1/13/2025		X		Comp	1	X	X	X		
CS-17 (3.25')	1/13/2025		X		Comp	1	X	X	X		
SW-19 (3')	1/13/2025		X		Comp	1	X	X	X		
SW-24 (4')	1/13/2025		X		Comp	1	X	X	X		

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2S0_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Rebecca		1/14/25 0855	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-53140-1
SDG Number: Lea CO, NM

Login Number: 53140
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/7/2025 1:04:58 PM

JOB DESCRIPTION

Ogopogo Federal Com #422H
Eddy Co NM

JOB NUMBER

880-52813-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 2/12/2025 2:05:22 PM

my EOL

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
1/7/2025 1:04:58 PM

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

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Laboratory Job ID: 880-52813-1
SDG: Eddy Co NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Ogopogo Federal Com #422H

Job ID: 880-52813-1

Job ID: 880-52813-1 Eurofins Midland

Job Narrative
880-52813-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/3/2025 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -9.2°C.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Backfill Material (880-52813-1), (880-52813-A-1-B MS) and (880-52813-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99436 and analytical batch 880-99407 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.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Client Sample ID: Backfill Material

Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Lab Sample ID: 880-52813-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/25 14:34	01/03/25 16:27	1
Toluene	**0.00265**		0.00199		mg/Kg		01/03/25 14:34	01/03/25 16:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/25 14:34	01/03/25 16:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/25 14:34	01/03/25 16:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/25 14:34	01/03/25 16:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/25 14:34	01/03/25 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/03/25 14:34*	*01/03/25 16:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/03/25 14:34*	*01/03/25 16:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/25 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/03/25 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		01/03/25 12:52	01/03/25 21:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/03/25 12:52	01/03/25 21:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/03/25 12:52	01/03/25 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/03/25 12:52*	*01/03/25 21:37*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*01/03/25 12:52*	*01/03/25 21:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		10.1		mg/Kg			01/06/25 16:02	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co 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)
880-52810-A-1-B MS	Matrix Spike	107	100
880-52810-A-1-C MSD	Matrix Spike Duplicate	110	103
880-52813-1	Backfill Material	114	105
LCS 880-99435/1-A	Lab Control Sample	109	104
LCSD 880-99435/2-A	Lab Control Sample Dup	109	103
MB 880-99435/5-A	Method Blank	108	100

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52813-1	Backfill Material	71	67 S1-
880-52813-1 MS	Backfill Material	73	66 S1-
880-52813-1 MSD	Backfill Material	73	67 S1-
LCS 880-99436/2-A	Lab Control Sample	118	109
LCSD 880-99436/3-A	Lab Control Sample Dup	124	115
MB 880-99436/1-A	Method Blank	95	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99435/5-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/25 09:00	01/03/25 14:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/25 09:00	01/03/25 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/03/25 09:00*	*01/03/25 14:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/03/25 09:00*	*01/03/25 14:03*	*1*

Lab Sample ID: LCS 880-99435/1-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1040		mg/Kg		104	70 - 130
Toluene	0.100	0.1014		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09987		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130

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

Lab Sample ID: LCSD 880-99435/2-A
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	6	35
Toluene	0.100	0.1081		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2182		mg/Kg		109	70 - 130	6	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-52810-A-1-B MS
Matrix: Solid
Analysis Batch: 99380

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.1075		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.100	0.1066		mg/Kg		106	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

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

Lab Sample ID: 880-52810-A-1-B MS | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99380 | **Prep Batch: 99435**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.1055		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2128		mg/Kg		106	70 - 130
o-Xylene	<0.00198	U	0.100	0.1082		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52810-A-1-C MSD | **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99380 | **Prep Batch: 99435**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1112		mg/Kg		111	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.1098		mg/Kg		110	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.0998	0.1089		mg/Kg		109	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2197		mg/Kg		110	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1123		mg/Kg		113	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-99436/1-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99407 | **Prep Batch: 99436**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/25 12:52	01/03/25 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/25 12:52	01/03/25 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/25 12:52	01/03/25 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*01/03/25 12:52*	*01/03/25 20:50*	*1*
o-Terphenyl	*95*		*70 - 130*	*01/03/25 12:52*	*01/03/25 20:50*	*1*

Lab Sample ID: LCS 880-99436/2-A | **Client Sample ID: Lab Control Sample**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 99407 | **Prep Batch: 99436**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1105		mg/Kg		111	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-99436/2-A
Matrix: Solid
Analysis Batch: 99407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99436

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-99436/3-A
Matrix: Solid
Analysis Batch: 99407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99436

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1109		mg/Kg		111	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1143		mg/Kg		114	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-52813-1 MS
Matrix: Solid
Analysis Batch: 99407

Client Sample ID: Backfill Material
Prep Type: Total/NA
Prep Batch: 99436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	690.5	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	760.7		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 880-52813-1 MSD
Matrix: Solid
Analysis Batch: 99407

Client Sample ID: Backfill Material
Prep Type: Total/NA
Prep Batch: 99436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	695.6	F1	mg/Kg		69	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	750.4		mg/Kg		72	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	67	S1-	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99445/1-A
Matrix: Solid
Analysis Batch: 99491

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/06/25 12:22	1

Lab Sample ID: LCS 880-99445/2-A
Matrix: Solid
Analysis Batch: 99491

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-99445/3-A
Matrix: Solid
Analysis Batch: 99491

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-52797-A-24-B MS
Matrix: Solid
Analysis Batch: 99491

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	232		250	457.9		mg/Kg		91	90 - 110		

Lab Sample ID: 880-52797-A-24-C MSD
Matrix: Solid
Analysis Batch: 99491

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	232		250	459.2		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

GC VOA

Analysis Batch: 99380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	8021B	99435
MB 880-99435/5-A	Method Blank	Total/NA	Solid	8021B	99435
LCS 880-99435/1-A	Lab Control Sample	Total/NA	Solid	8021B	99435
LCSD 880-99435/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99435
880-52810-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	99435
880-52810-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99435

Prep Batch: 99435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	5035	
MB 880-99435/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99435/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99435/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52810-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-52810-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	8015B NM	99436
MB 880-99436/1-A	Method Blank	Total/NA	Solid	8015B NM	99436
LCS 880-99436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99436
LCSD 880-99436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99436
880-52813-1 MS	Backfill Material	Total/NA	Solid	8015B NM	99436
880-52813-1 MSD	Backfill Material	Total/NA	Solid	8015B NM	99436

Prep Batch: 99436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	8015NM Prep	
MB 880-99436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52813-1 MS	Backfill Material	Total/NA	Solid	8015NM Prep	
880-52813-1 MSD	Backfill Material	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Soluble	Solid	DI Leach	
MB 880-99445/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99445/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99445/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

HPLC/IC (Continued)

Leach Batch: 99445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52797-A-24-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52797-A-24-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52813-1	Backfill Material	Soluble	Solid	300.0	99445
MB 880-99445/1-A	Method Blank	Soluble	Solid	300.0	99445
LCS 880-99445/2-A	Lab Control Sample	Soluble	Solid	300.0	99445
LCSD 880-99445/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99445
880-52797-A-24-B MS	Matrix Spike	Soluble	Solid	300.0	99445
880-52797-A-24-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99445

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Client Sample ID: Backfill Material

Date Collected: 01/02/25 00:00
Date Received: 01/03/25 11:39

Lab Sample ID: 880-52813-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99435	01/03/25 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99380	01/03/25 16:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			99563	01/03/25 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			99551	01/03/25 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99436	01/03/25 12:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99407	01/03/25 21:37	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99445	01/03/25 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99491	01/06/25 16:02	CH	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
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: Ogopogo Federal Com #422H

Job ID: 880-52813-1
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52813-1	Backfill Material	Solid	01/02/25 00:00	01/03/25 11:39

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Chain of Custody

Work C

880-52813 Chain of Custody

1/7/2025

Page __1__ of __1__

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	JR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Received Intact:	(Yes) No	Thermometer ID:	PR9
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-9.1
Total Containers:		Corrected Temperature:	-9.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
Backfill Material	1/2/2025		X		Comp	1		X	X	X		

Parameters

ANALYSIS REQUEST

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3		01.03.25 1139	4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52813-1
SDG Number: Eddy Co NM

Login Number: 52813
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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.	True	
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 10:55:58 AM

JOB DESCRIPTION

Ogopogo Federal Com #422H
Eddy Co, NM

JOB NUMBER

880-52909-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 2/12/2025 2:05:22 PM

my EOL

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
1/8/2025 10:55:58 AM

Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Laboratory Job ID: 880-52909-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi 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.

HPLC/IC

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)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Ogopogo Federal Com #422H

Job ID: 880-52909-1

Job ID: 880-52909-1 Eurofins Midland

Job Narrative
880-52909-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/7/2025 9:26 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: Merchant-Backfill Material (880-52909-1).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: Merchant-Backfill Material (880-52909-1). Percent recoveries are based on the amount spiked.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99593 and analytical batch 880-99699 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.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Client Sample ID: Merchant-Backfill Material

Date Collected: 01/06/25 00:00
Date Received: 01/07/25 09:26

Lab Sample ID: 880-52909-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 01:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 01:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 01:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/08/25 01:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/08/25 01:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/08/25 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/07/25 10:10*	*01/08/25 01:38*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/07/25 10:10*	*01/08/25 01:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/08/25 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/07/25 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 20:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:03	01/07/25 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*01/07/25 16:03*	*01/07/25 20:45*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*01/07/25 16:03*	*01/07/25 20:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		10.1		mg/Kg			01/08/25 00:57	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, 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)										
880-52909-1	Merchant-Backfill Material	110	96										
890-7532-A-1-B MS	Matrix Spike	110	100										
890-7532-A-1-C MSD	Matrix Spike Duplicate	94	100										
LCS 880-99662/1-A	Lab Control Sample	111	96										
LCSD 880-99662/2-A	Lab Control Sample Dup	112	100										
MB 880-99633/5-A	Method Blank	86	91										
MB 880-99662/5-A	Method Blank	99	90										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-52909-1	Merchant-Backfill Material	69 S1-	68 S1-										
890-7543-A-1-E MS	Matrix Spike	79	75										
890-7543-A-1-F MSD	Matrix Spike Duplicate	80	76										
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128										
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130										
MB 880-99667/1-A	Method Blank	107	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99633/5-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/07/25 08:46*	*01/07/25 11:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/07/25 08:46*	*01/07/25 11:13*	*1*

Lab Sample ID: MB 880-99662/5-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:11*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:11*	*1*

Lab Sample ID: LCS 880-99662/1-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1118		mg/Kg		112	70 - 130
Toluene	0.100	0.1137		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-99662/2-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99662

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	1	35

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-99662/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99625 — **Prep Batch: 99662**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1118		mg/Kg		112	70 - 130	2	35
Ethylbenzene			0.100	0.1088		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2089		mg/Kg		104	70 - 130	1	35
o-Xylene			0.100	0.1155		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7532-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99625 — **Prep Batch: 99662**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1055		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1918		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7532-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99625 — **Prep Batch: 99662**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1097		mg/Kg		110	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1985		mg/Kg		99	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-99667/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-99667/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/07/25 10:51*	*01/07/25 18:47*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/07/25 10:51*	*01/07/25 18:47*	*1*

Lab Sample ID: LCS 880-99667/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*128*		*70 - 130*

Lab Sample ID: LCSD 880-99667/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20

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

Lab Sample ID: 890-7543-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	838.4		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U	997	837.3		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7543-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99655 — **Prep Batch: 99667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	997	859.1		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	997	866.2		mg/Kg		87	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99593/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/07/25 22:40	1

Lab Sample ID: LCS 880-99593/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.5		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-99593/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.0		mg/Kg		106	90 - 110	3	20

Lab Sample ID: 880-52908-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	471	F1	251	774.7	F1	mg/Kg		121	90 - 110

Lab Sample ID: 880-52908-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	471	F1	251	758.1	F1	mg/Kg		114	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	8021B	99662
MB 880-99633/5-A	Method Blank	Total/NA	Solid	8021B	99633
MB 880-99662/5-A	Method Blank	Total/NA	Solid	8021B	99662
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	8021B	99662
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99662
890-7532-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	99662
890-7532-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99662

Prep Batch: 99633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99633/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	5035	
MB 880-99662/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7532-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7532-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	99667
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7543-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7543-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 99593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Soluble	Solid	DI Leach	
MB 880-99593/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52908-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52908-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52909-1	Merchant-Backfill Material	Soluble	Solid	300.0	99593
MB 880-99593/1-A	Method Blank	Soluble	Solid	300.0	99593
LCS 880-99593/2-A	Lab Control Sample	Soluble	Solid	300.0	99593
LCSD 880-99593/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99593
880-52908-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	99593
880-52908-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99593

Lab Chronicle

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Client Sample ID: Merchant-Backfill Material

Date Collected: 01/06/25 00:00
Date Received: 01/07/25 09:26

Lab Sample ID: 880-52909-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99780	01/08/25 01:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99771	01/07/25 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 20:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99593	01/07/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99699	01/08/25 00:57	CH	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
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
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: Ogopogo Federal Com #422H

Job ID: 880-52909-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52909-1	Merchant-Backfill Material	Solid	01/06/25 00:00	01/07/25 09:26

Released to Imaging: 2/12/2025 2:05:22 PM
Received by OCD: 2/12/2025 11:05:06 AM

Chain of Custody

Work

880-52909 Chain of Custody

Page __1__ of __1__

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	OGOPOGO FEDERAL COM #422H	Turn Around	
Project Number:	2543	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date: 72 hr Normal	
Sampler's Name:	JR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.1

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
Merchant - Backfill Material	1/6/2025		X		Comp	1		X	X	X		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/7/25 0926	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52909-1
SDG Number: Eddy Co, NM

Login Number: 52909
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

APPENDIX F

CARMONA RESOURCES

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

July 21, 2024

#ogopogo_env_22

Mark Andersen
Permian Asset HSEQ Manager
TETRA Technologies Inc./Swiftwater Inc.
2401 N. CR 1287 Midland,TX 79701
Phone: 432.234.0179

SUBJECT: Closure Report for the DL 10 15 OGOPOGO FEDERAL COM #422H Release (NAPP2229333460), (nAPP2230526211), Lea County, New Mexico

Dear Mr. Anderson,

On behalf of Atkins Engineering Associates INC. (AEA) has prepared this Closure Report for releases (NAPP2229333460), (nAPP2230526211). This report summarizes the remediation activities of the release of liquids related to oil and gas production activities at the DL 10 15 OGOPOGO FEDERAL COM #422H. The site is in Unit I, Section 10, Township 22S, Range 33E, Lea County, New Mexico, on Federal land.

Table 1 summarizes release information and Site Criteria.

Table 1: Release Information and Closure Criteria			
Name	DL 10 15 OGOPOGO FEDERAL COM #422H	Company	Chevron U.S.A., Inc
API Number	30-025-49906	Location	32.40448, -103.55576
Incident Number	nAPP2230526211 and NAPP2229333460		
Estimated Date of Release	10/16/22 and 10/20/22	Date Reported to NMOCD	10/16/22 and 10/22/20
Landowner	State	Reported To	NMOCD District 2
Source of Release	A third party's main water supply line to the frac operations had an equipment failure when the manifold slid out of the manifold head clamp.		
Released Volume	30 bbls and 1091 bbls	Released Material	Produced Water
Recovered Volume	27 bbls and 720 bbls	Net Release	3 bbls and 371 bbls
NMOCD Closure Criteria	51-100 feet to groundwater data is outside the recommended .5 miles		
AEA Response Dates	See appendix		

1.0 Background

On October 16 and 20, 2022, two separate releases which overlapped each other, were discovered at the DL 10 15 OGOPOGO FEDERAL COM #422H. A third party's main water supply line to the frac operations had an equipment failure when the manifold slid out of the manifold head clamp. Through estimated soil saturation calculations, the release volume was estimated by operations staff and confirmed through the attached C141s. Initial response activities were conducted by the operator, and included source elimination by means of repair and immediate site stabilization and release recovery. Figure 1 illustrates the vicinity and site location. The C-141 forms are included in Appendix A.

On January 17, 2023, AEA personnel arrived on site in response to the release associated with DL 10 15 OGOPOGO FEDERAL COM #422H. AEA performed site delineation activities on January 17, 2023, by collecting soil samples around the release site selected by VSP program with a systematic sampling with a random start location. Soil samples were field screened for chloride using an electrical conductivity (EC) meter.

A total of twenty-two (22) sample locations (SW1 – SW10 & BH1 – BH4) were investigated using a direct-push drill rig, to depths up to four (4) feet bgs. A minimum of three (3) delineation samples were, collected at each soil bore location and field-screened using the method above. A total of twenty-two (22) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. As summarized in the NMOCD approved Work Plan dated January 30, 2023.

A Remediation Closure was submitted to NMOCD on February 15th, 2024, and denied by NMOCD the issues were address in the email on February 16th, 2024 and in the subsequent Remediation Closure resubmittal. The exchange is summarized below,

Conditions of approval were not met which stated "Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet."

-This was a typo and was corrected. The excavation area was approximately 38,900 square feet / 400 square feet = 98 samples. The perimeter was approximately 1,334 feet of 4ft sidewall / 50ft = 27 samples.

DTGW not verified. If nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data must be no more than 25 years old, and well construction information must be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

-Atkins accepts the 50ft or less criteria, this is constant with the surface leases requirements as well.

Excavation depth is not listed anywhere. Sample ID names should be the same in your Table as on your Figures so we don't have to guess which sample is which.

-Atkins excavated 6ft to 8ft in Excavation 1 the northern most area, and 4ft everywhere else. Hope the attached figure will help clarify. GIS staff had to abbreviate sample names to fit the figures, I apologize for any issues this has caused division staff.

The sampling notice that was provided to OCD stated sampling would occur on 8/11/2023 however samples were collected on: 7/13, 7/17, 7/18, 7/20, 7/24, 7/28, 8/1, 8/4, 8/10, 8/14, 8/15, 8/16 and 8/17. Sampling notices need to correspond with the date you collect samples!

-Atkins, wanted to give the division, landowner and lessee the opportunity to see the excavation in whole which is why the notice was given for 8/11/23. Samples are collected daily in order to guide and confirm field sampling which began on 7/13/23.

If you want the “four locations” that exceed the less than 50 feet to groundwater closure standards to be deferred, that must be requested in a resubmittal which includes the location of the four deferral points on a sitemap with an explanation of why they cannot be remediated at this present time and demonstrate that it "does not cause an imminent risk to human health, the environment, or ground water" per 19.15.29.12(C)2 NMAC. Turn in deferral request or new closure report by 3/16/2024.

-Atkins has clarified in the resubmittal sent 6/6/2024. The "dig plan" on site was prepared by a Certified Safety Professional (CPS) and will be included if requested.

Excavation 1 CS South Wall	depth 4ft	Locations Power supply and I&E
Excavation 2 North West CS 2	depth 2.5ft	Under pipeline
Excavation 2 North West CS 4	depth 2.5ft	Well Head
Excavation 2 CS 54	depth 4ft	Under pipeline

Attached is API Amigo HYDRUS model (API 4758. and API 4663) showing very low risk to ground water.

A revised Remediation Closure was submitted to NMOCD on June 6th, 2024, and denied by NMOCD on June 10th, 2024. The denial, from emnrd.com is summarized below,

Remediation closure denied. You are asking for deferral so you should not answer "Yes" to requesting remediation closure approval. Based on the scaled site maps provided, the surface area of the excavation is ~ 70, 925 square feet. There were only 149 confirmation samples collected which at one five-point composite sample every 400 square feet, not enough samples were collected.

Atkins needs to clarify some points with the assumptions above. It is true the approximate release area shown in figures 3 and 4 as calculated by ESRI arc pro is over 70,000 square feet, this was calculated using the Electromagnetic Inductive Survey (EM) performed on January 17, 2023. EM surveying was used as a “first-pass” investigation to accurately define the parameters or horizontal boundaries of the shallow soil investigation, EM is inherently conservative because it is looking at total salinity and not just Chloride.

Shortly before the start of remedial excavation on July 13th of 2023 the location had received several rain events see local precipitation data below.

Table 2: Local Precipitation Data

Month	City of Eunice (Hobbs Station) Precipitation (inch)	Lea County Regional Airport Precipitation (inch)
April 2023	0.05	0.06
May 2023	2.07	1.73
June 2023	1.10	1.15

The rain event caused the horizontal extent of the release area to reduce but the vertical extent to increase. The NMOCD submitted Work Plan dated January 30, 2023 presented data that delineation locations SB1-SB4 were elevated in chlorides to depths of approximately two (2) foot. But rain events prior to the start of remedial excavation on July 13th of 2023 and the fine sandy texture of the area soils caused the final excavation to be 4 to 6ft in total depth deeper than the predicted.

Prior to the collection of closure samples on the northern 6ft excavation on July 13- July 18th 2023 Atkins used the Arc Collector Cell phone App which uses a local GNSS to collect the excavation boundaries and calculate the square footage which was 2,103 square feet. The square footage of the northern remedial excavation predicted by the EM salinity survey conducted by Atkins was 3,098 square feet. The EM meter utilized an Atkins survey control network and used RTK-GPS observations to get accurate positional data. Conductivity data points were acquired continuously on 5 second intervals or approximately every 10 feet along the digital transect lines. The Shape files supplied by Atkins field staff would have to be applied in the field with that same base point and control to be accurate sub-meter. Basically, there is a slight error of three to six (3-6) feet when applying RTK-GPS observations from one field unit to another. This means that Atkins and its subcontractors may be off by three to six (3-6) feet from the EM predicted locations. This coupled with the effects from the rain event cause a decrease in the square footage from the predicted to the actual but an increase in the excavated cubic yards of soil. In short, the area of the affected soils was smaller but the actual excavation was deeper.

The excavation area that was calculated on site prior to sample collection by the Arc Collector Cell phone App which uses a local GNSS was 43,323 square feet. Once we remove the deferred areas immediately around the wellhead and utilities, an area of approximately 38,900 square feet remains. 38,900 square feet / 400 square feet = 98 samples. The perimeter was approximately 1,334 feet of 4ft to 6ft sidewall / 50ft = 27 samples.

Since water well information was not provided within ½ mile of site and less than 25 years old, the site is to be remediated to Table I Closure Criteria for groundwater at a depth of 50 feet or less.

Atkins agrees, this mirrors the landowners wishes as well and was always the goal of the remediation.

Sample ID names should be the same in your Table as in your Figures so the reviewer doesn't have to guess which sample is which. The shape of your excavation is different in Figure 3 from Figure 4 which makes it difficult to understand what occurred.

Atkins abbreviated sample names in order to fit the text in the attached maps, hopefully the reduced scale figures with full sample names help.

Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water.

Atkins has attached an API Amigo HYDRUS model (API 4758. and API 4663) showing very low risk to ground water. In order to showcase the worst scenario all HYDRUS modeling was done with the assumption that the remedial excavation had not occurred.

The areas requested for deferral must be vertically and horizontally delineated first. If equipment is hindering the vertical delineation process, take a soil sample as close as possible to the equipment, but out of harm's way so that vertical delineation can be met. If horizontal delineation samples on pad eventually reach a mechanical barrier, (such as pipeline, battery, equipment) sample(s) should be obtained as near as possible on the linear opposite side of said barrier and as close as possible to barrier.

The deferred areas have been fully delineated, see close-up figures 5 and 6.

Resubmit report to the OCD by 8/9/2024.

This is the resubmittal dated 7/21/2024

2.0 Site Information and Closure Criteria

The DL 10 15 OGOPOGO FEDERAL COM #422H is located approximately 25 miles West of Eunice Lea County, New Mexico on Federal (BLM) land at an elevation of approximately 3565 feet above mean sea level (amsl).

Based upon the New Mexico Office of the State Engineers (NMOSE) online water well database, (Appendix B) depth to groundwater in the area is estimated to be 75-280 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the NMOSE database. (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 12/16/2023). The nearest significant watercourse is Floyd Tank, located approximately 3.5 miles North of the location. Figure 1 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of between 51-100 feet bgs. But because of the distance from the location to the well log in Appendix B Atkins accepts <50 feet bgs for the depth to groundwater. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Summary of Remediation Activities

After receiving NMOCD approval, NM 811 utility clearance and a Dig Permit from Chevron excavation work started July 13, 2023. Because of recent rain events Chloride contaminates were found to have leached vertically to greater depths than reported in the January 30th Work Plan. NMOCD, NMSLO and the private landowner were notified via email on August 11th of the closure sampling event forty-eight (48) hours prior to final sampling. All samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Cardinal Laboratory in Hobbs, New Mexico (Appendix D).

AEA and SESI supervised an excavation of seven thousand three hundred and sixty (7360) cubic yards of caliche and native soil to remediate the top four (4) feet of the pad to be compliant with, 19.15.29.13(D)(1) NMAC says “The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0.

All one hundred and forty-eight (148) closure samples meet or exceed the less than fifty (50) ft to groundwater closure standards in 19.15.29 Table 1 except for four locations all of which are immediately adjacent to a utility making further excavation unsafe see figure 4-6.

Figure 3 shows the extent of the excavation and existing sample locations. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

All contaminated soil from the location was taken to an NMOCD approved facility (waste manifest will be available upon request).

As all discovered impacts are on the locations pad this Closure Plan does not address or require revegetation or restoration work.

4.0 Variance and Limitations

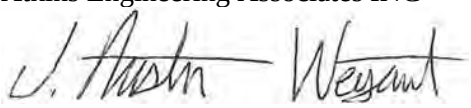
Atkins Engineering Associates INC. (AEA) request a sample variance request from 19.15.29.D.1.c. in the NMOCD approved Work Plan dated January 30, 2023. All closure sample collection was at the approved four hundred (400) square foot.

AEA requests that the “four locations” that exceed less than 50 feet to groundwater closure standards to be deferred see figures 4-6. The requested four deferral points in figure 4 cannot be remediated at this present time because they are immediately adjacent to area utilities. AEA has demonstrated that the chloride mass left in less than in 3% of the area "does not cause an imminent risk to human health, the environment, or ground water" per 19.15.29.12(C)2 NMAC. See API Amigo model.

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Austin Weyant at 575-626-3993

Submitted by:
Atkins Engineering Associates INC



Austin Weyant
Environmental Project Manager

ATTACHMENTS:

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Figure 1: Excavation and Sample Map

Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3a: Summary of Closure Sample Results

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Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Photo Log and Field Notes
Appendix D: Laboratory Analytical Reports

FIGURES

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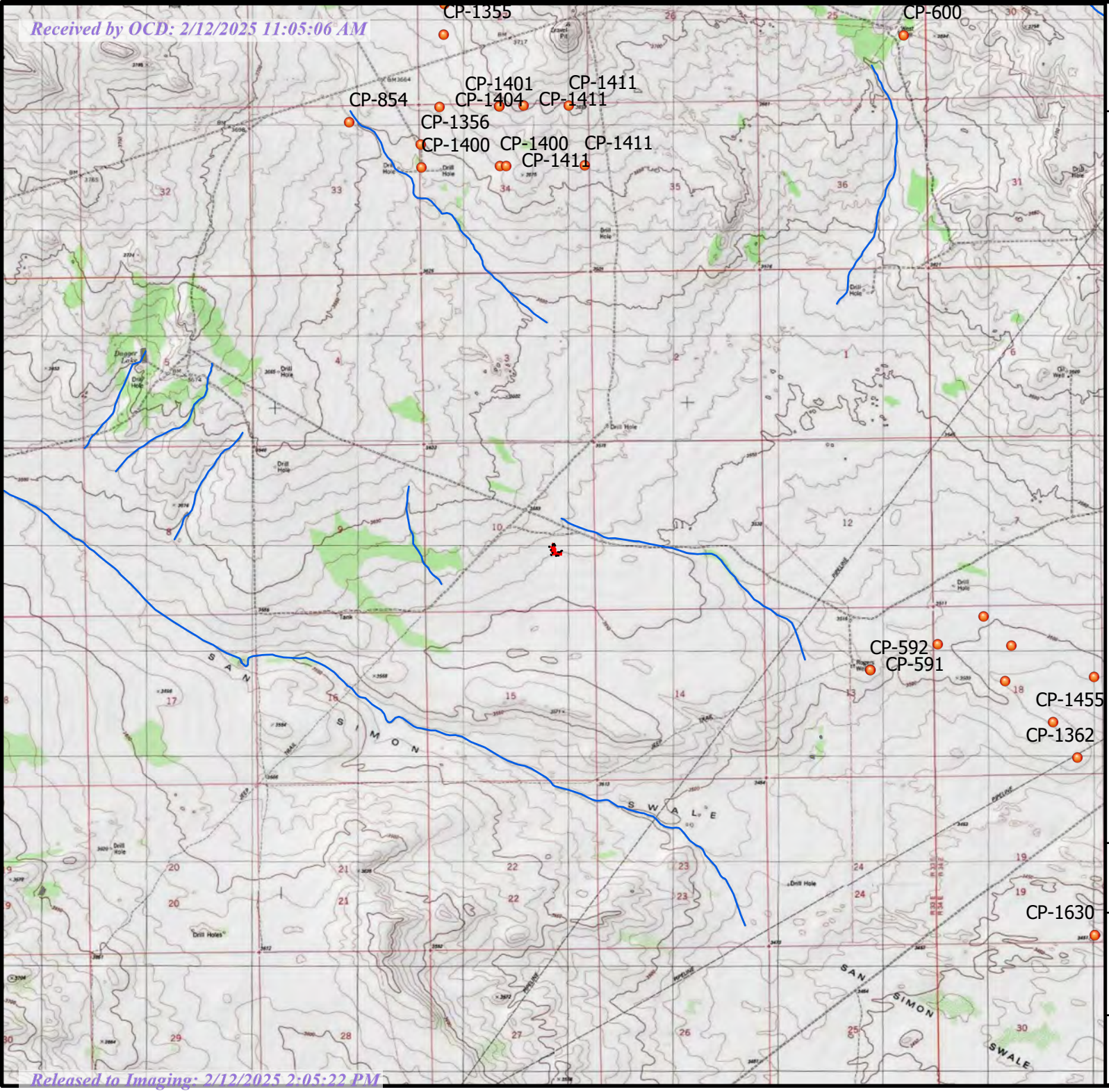

FIGURE 1 Ogopogo API 49907 Setback Map

LEGEND

- Apx_Clip
- OSE_PODs
- Lakes_Playas
- Flowlines_SENM
- Springs_Seeps

ECa mS/cm

N

0 2,000 4,000 8,000

Scale: 1:50,000 Feet

JOB No. Ogopogo_env_22

DATE FIELD: 12/9/22 DRAWN JAW

DATE DRAWN: 12/30/2022 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

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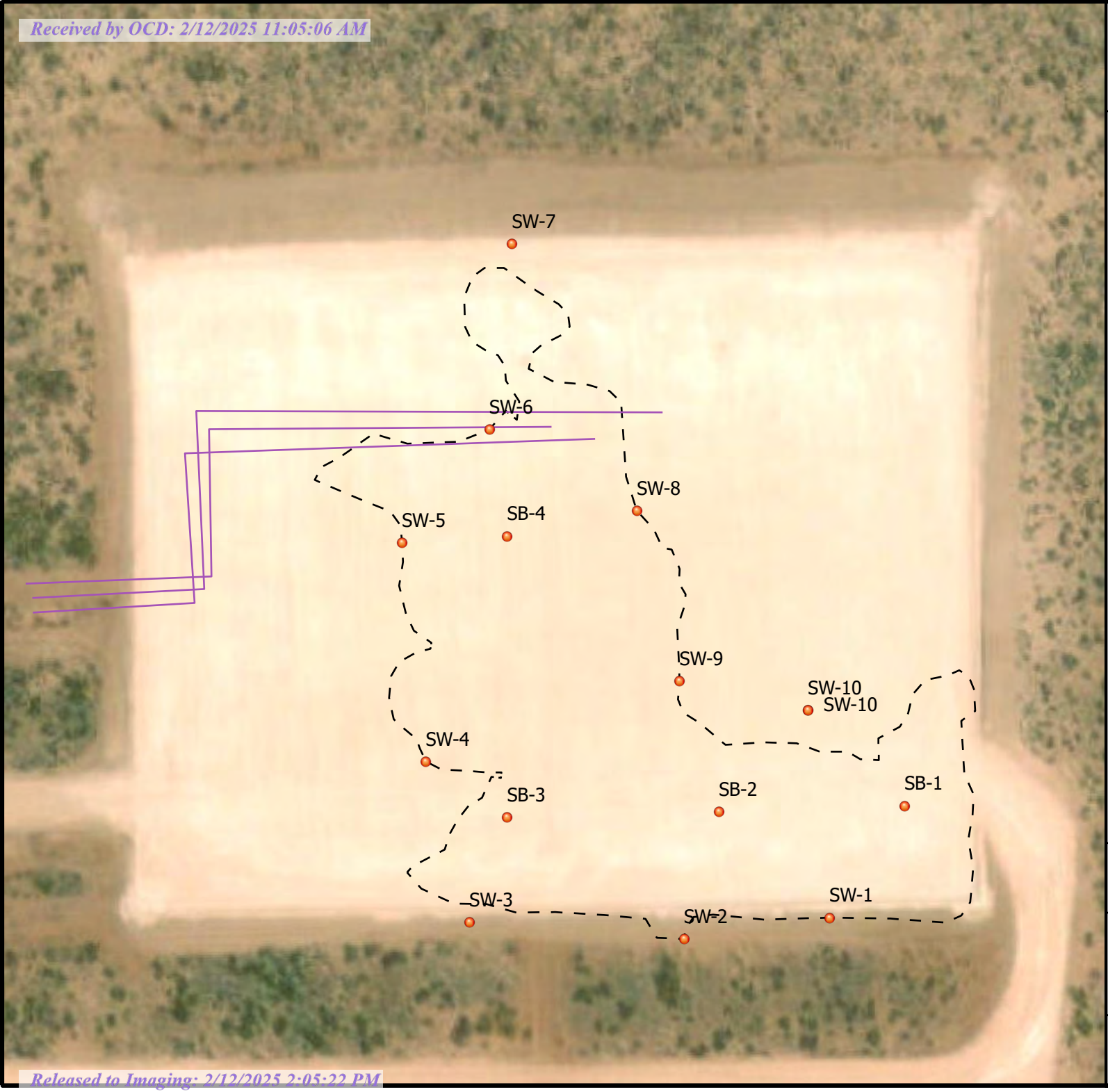

FIGURE 2 Ogopogo API 49907 Setback Map

LEGEND

- Apx. Release Area
- Pipeline
- Location

N

0 40 80 160

Scale: 1:1,000 Feet

JOB No. Ogopogo_env_22

DATE FIELD: 12/9/22 DRAWN JAW

DATE DRAWN: 1/26/2023 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

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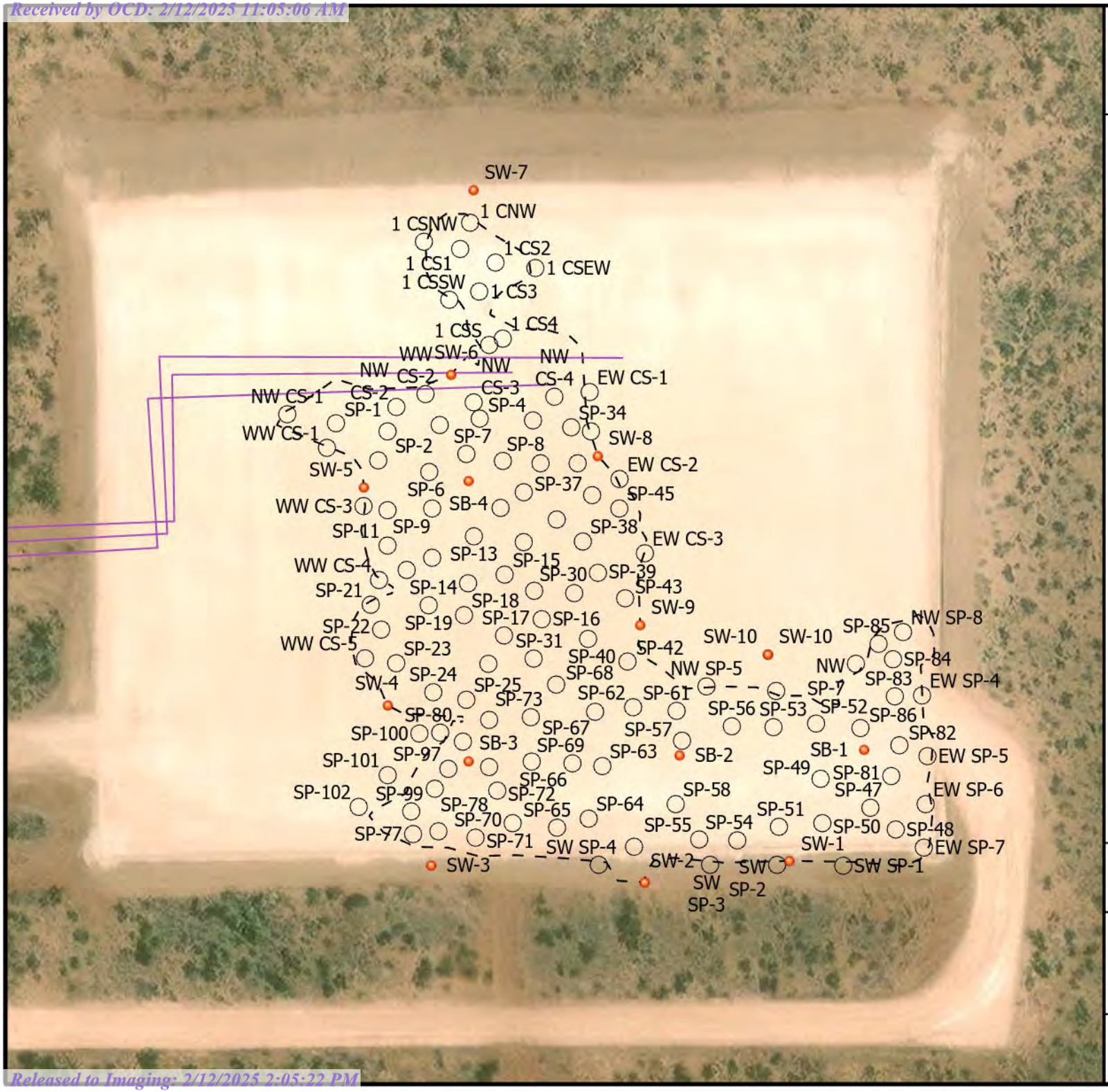

FIGURE 3
Ogopogo API 49907
Excavation & Sample Map

LEGEND

- Excavation Area
- Apx. Release Area
- WellGIS
- Closure Sample Location
- Pipeline
- Location

N

0 40 80 160

Scale: 1:1,000 Feet

JOB No. Ogopogo_env_22

DATE FIELD: 12/9/22 DRAWN JAW

DATE DRAWN: 10/16/2023 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

Released to Imaging: 2/12/2025 2:05:22 PM

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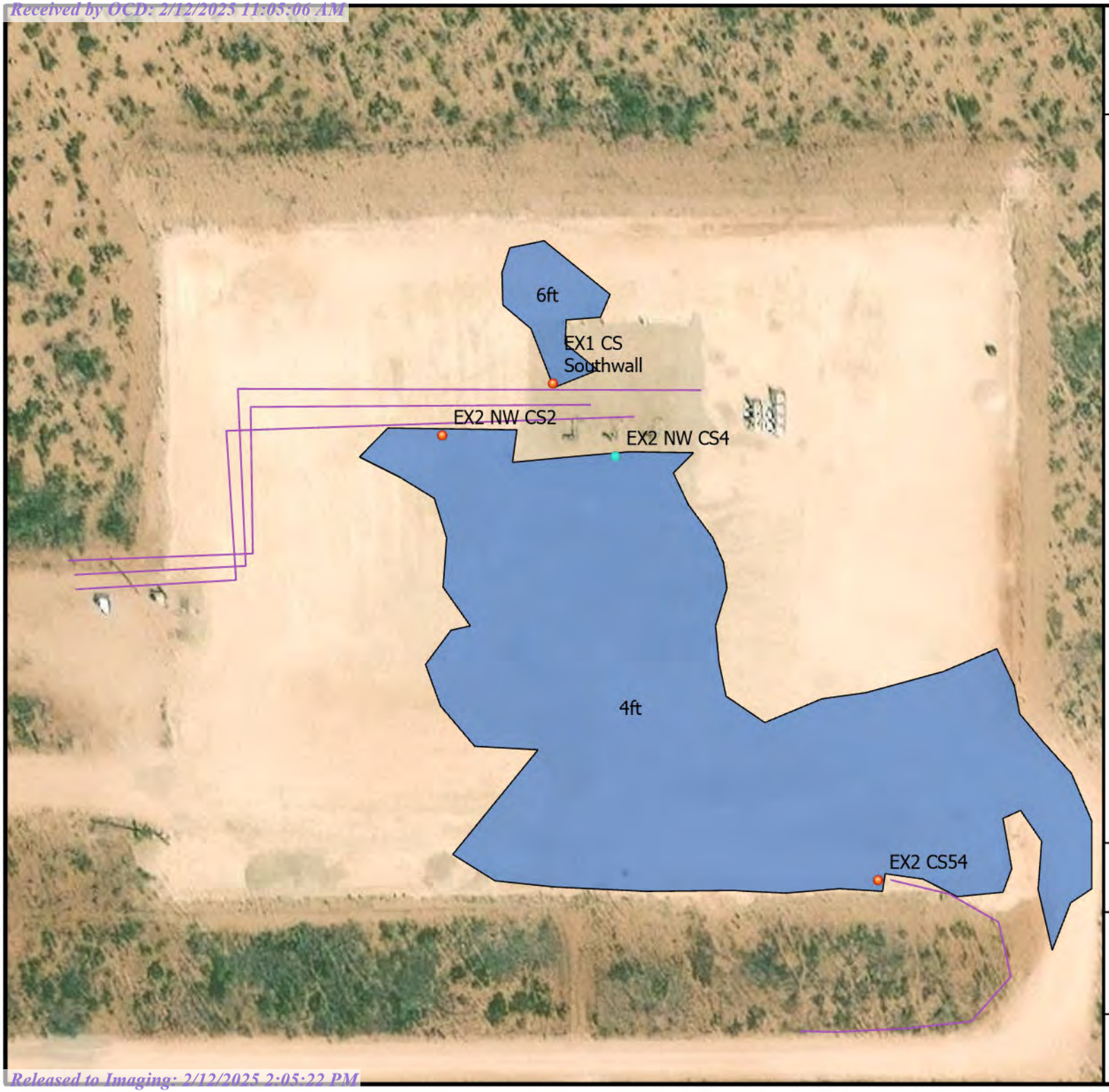

FIGURE 4
Ogopogo API 49907
Excavation & Deferral

LEGEND
- Excavation Area
- Pipeline
- Soil Sample

N

0 40 80 160
Scale: 1:1,000 Feet

JOB No. Ogopogo_env_22
DATE FIELD: 12/9/22 DRAWN JAW
DATE DRAWN: 11/6/2023 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

Released to Imaging: 2/12/2025 2:05:22 PM

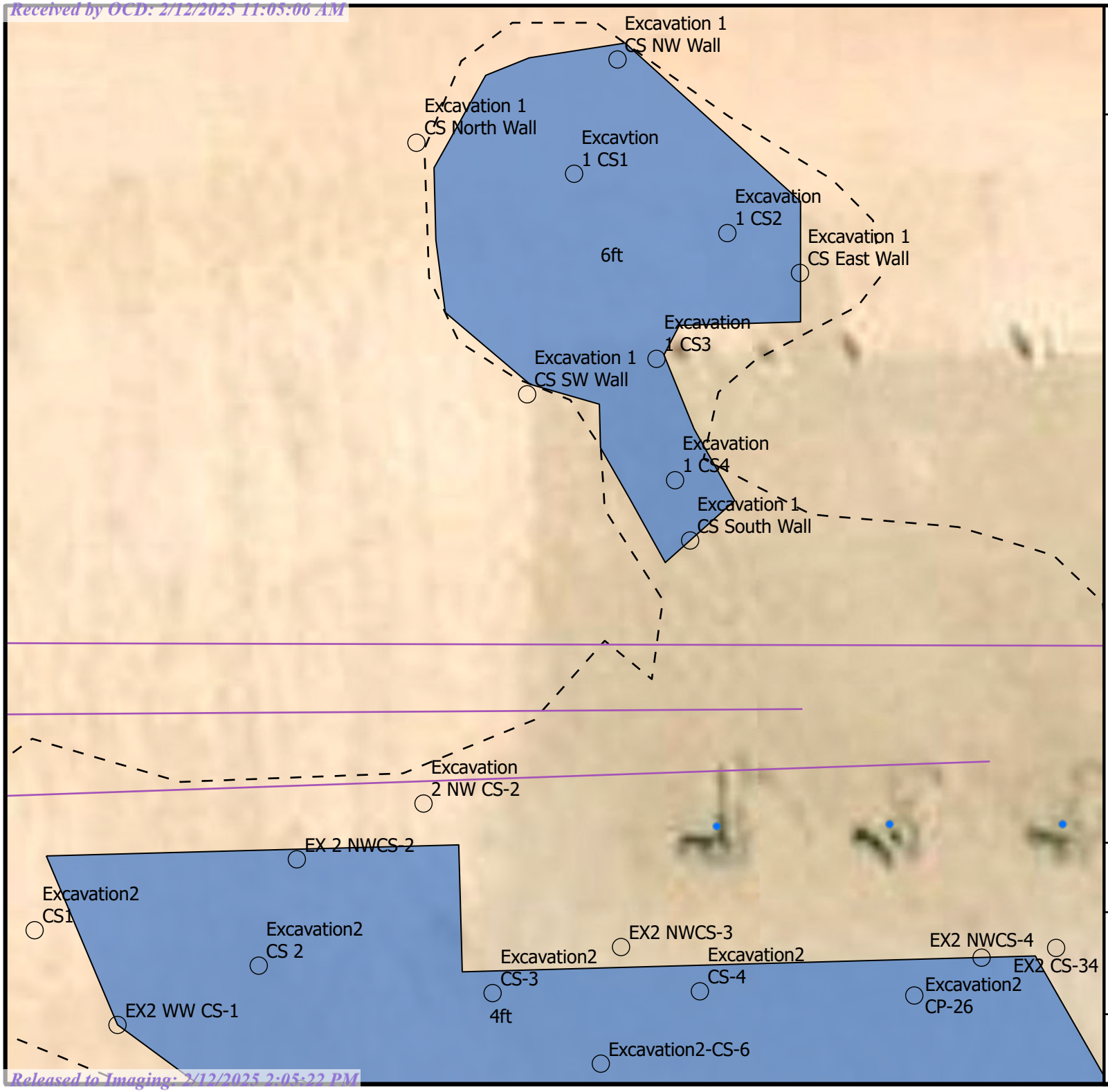

FIGURE 5
Ogopogo API 49907
Excavation & Deferral

LEGEND

- Excavation Area
- Apx. Release Area
- Closure Sample Location
- Pipeline
- NMOCD Wells

N

0 5 10 20

Scale: 1:230 Feet

JOB No. Ogopogo_env_22

DATE FIELD: 12/9/22 DRAWN JAW

DATE DRAWN: 2/16/2024 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

Received by OCD: 2/12/2025 11:05:06 AM

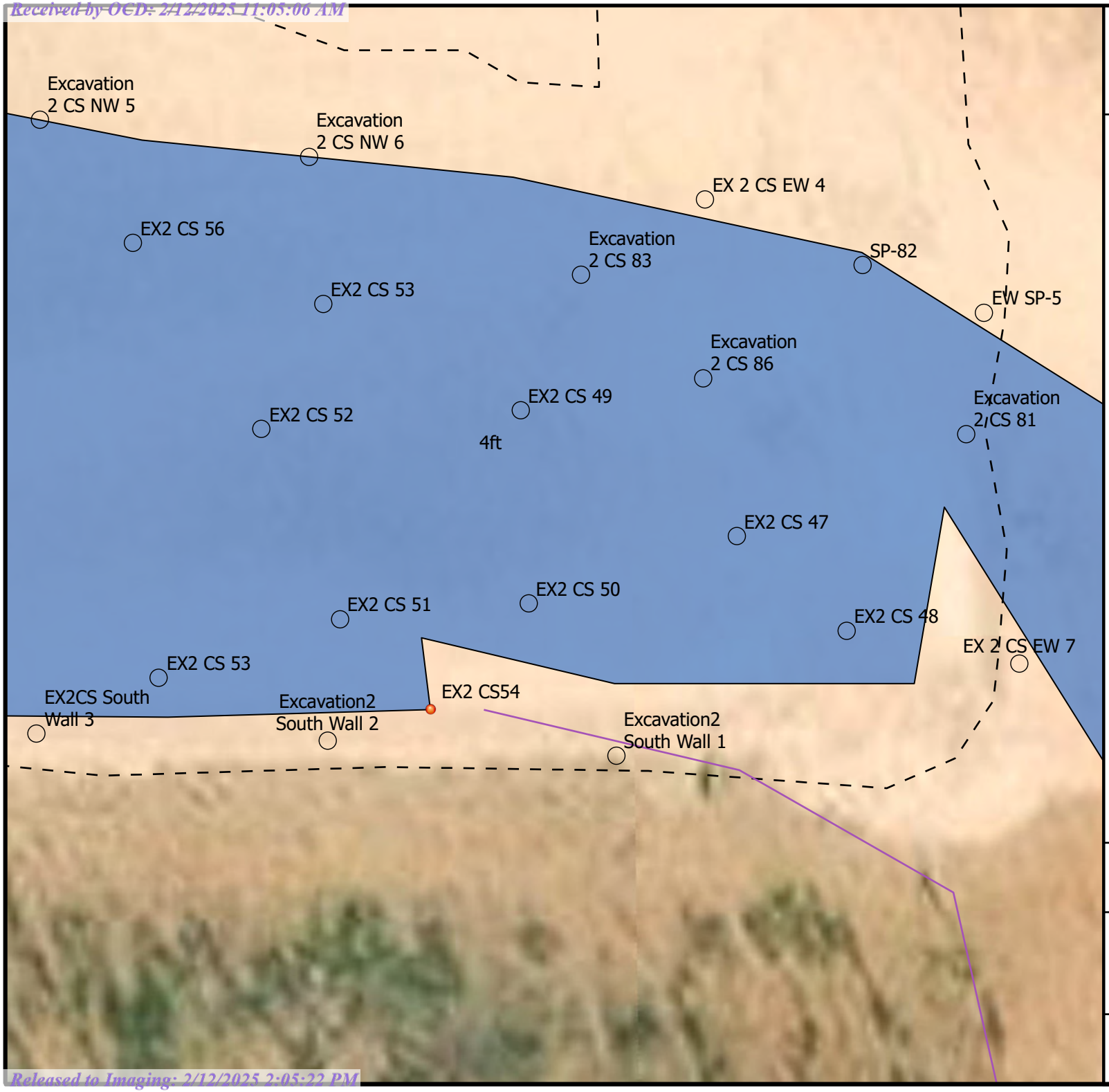

FIGURE 6
Ogopogo API 49907
Excavation & Deferral

LEGEND

- Excavation Area
- Apx. Release Area
- Closure Sample Location
- Pipeline
- Soil Sample
- NMOCD Wells

N

0 5 10 20

Scale: 1:230 Feet

JOB No. Ogopogo_env_22

DATE FIELD: 12/9/22 DRAWN JAW

DATE DRAWN: 7/21/2024 REVIEW LCM

Atkins ENGINEERING ASSOCIATES

Released to Imaging: 2/12/2025 2:05:22 PM

TABLES

Table 3:
Summary of Closure Sample Results

TETRA Technologies Inc./Swiftwater Inc
OGOPOGO FEDERAL COM #422H (nAPP2230526211)

Sample ID	Sample Date	Proposed Action	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- mg/Kg
NMOCD Criteria			50	10				100	600
Excavation 1 CS2	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	96
Excavation 1 CS1	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	160
Excavation 1 CS3	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 1 CS4	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 1 CS East Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
Excavation 1 CS NW Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
Excavation 1 CS North Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 1 CS SW Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	96
Excavation 1 CS South Wall	7/13/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	18.1	<10.0	<30.0	1120
Excavation 2 CS 1	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 2 CS 2	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	208
Excavation 2 CS 3	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
Excavation 2 CS 4	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 5	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
Excavation 2 CS 6	7/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 14	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 15	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
Excavation 2 CS 16	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 17	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 18	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 19	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
Excavation 2 CS 20	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	192
Excavation 2 CS 24	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
Excavation 2 CS 25	7/18/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 21	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	13.5	<30.0	448
Excavation 2 22	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 2 23	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 2 36	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	384
Excavation 2 40	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
Excavation 2 41	7/20/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
Excavation 2 CS 26	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
Excavation 2 CS 27	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	160
Excavation 2 CS 35	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
Excavation 2 CS 44	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
Excavation 2 CS 45	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
Excavation 2 CS 46	7/24/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 WWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 WWCS 2	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 WWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 WWCS 4	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	240
EX2 WWCS 5	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 NWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	576
EX2 NWCS 2	7/28/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	1720
EX2 NWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	544
EX2 NWCS 4	7/28/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	18.7	<10.0	<30.0	752
EX2 EWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EX2 EWCS 2	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EX2 EWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 28	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 29	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX2 CS 30	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 31	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 32	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 33	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX2 CS 34	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX2 CS 37	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 38	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX2 CS 39	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 42	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	<16
EX2 CS 43	8/1/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX2 CS 47	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80

Table 3:
Summary of Closure Sample Results

TETRA Technologies Inc./Swiftwater Inc
OGOPOGO FEDERAL COM #422H (nAPP2230526211)

EX2 CS 48	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EX2 CS 49	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	224
EX2 CS 50	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 51	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 52	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 53	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 54	8/4/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	720
EX2 CS 55	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	256
EX2 CS 56	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 57	8/4/2023	in-situ	<0.100	<0.050	<10.0	10.6	<10.0	<30.0	80
EX2 CS 58	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS South Wall 1	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EX2 CS South Wall 2	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	208
EX2 CS South Wall 3	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	144
EX2 CS South Wall 4	8/4/2023	in-situ	<0.100	<0.050	<10.0	31.6	<10.0	<30.0	272
EX2 CS 59	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 60	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 CS 61	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EX2 CS 62	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 CS 63	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 64	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS 65	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 CS 66	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 67	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EX2 CS 68	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EXCAVATION 2 CS 69	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 70	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 72	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 73	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EXCAVATION 2 CS 74	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 77	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EXCAVATION 2 CS 79	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 80	8/10/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 71	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 75	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 76	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	<16
EXCAVATION 2 CS 78	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 81	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EXCAVATION 2 CS 82	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 83	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 84	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 85	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EXCAVATION 2 CS 86	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 87	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EXCAVATION 2 CS 89	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
EXCAVATION 2 CS 90	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 91	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EXCAVATION 2 CS 92	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 93	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 94	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	160
EXCAVATION 2 CS 95	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	256
EXCAVATION 2 CS 96	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EXCAVATION 2 CS NW 5	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	256
EXCAVATION 2 CS NW 6	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS EW 6	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EXCAVATION 2 CS NW 5	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EXCAVATION 2 CS NW 7	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS NW 8	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EXCAVATION 2 CS 100	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	96
EXCAVATION 2 CS 101	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS 102	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX 2 CS NW 5	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS NW 7	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS NW 8	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX 2 CS EW 4	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS EW 7	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS 88	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX 2 CS EW 5	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS 107	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS 106	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EX 2 CS 105	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS 104	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
EX 2 CS 109	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32

Table 3:
Summary of Closure Sample Results

TETRA Technologies Inc./Swiftwater Inc
OGOPOGO FEDERAL COM #422H (nAPP2230526211)

EX 2 CS 108	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX 2 CS EW 8	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	224
EXCAVATION 2 CS SW 5	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS SW 6	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	160
EXCAVATION 2 CS SW 7	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	272
EXCAVATION 2 CS SW 8	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EXCAVATION 2 CS SW 9	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS NW 9	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS NW 10	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS NW 11	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EXCAVATION 2 CS 54	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EXCAVATION 2 CS 97	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 98	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS 99	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	96
EXCAVATION 2 CS 102	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	240

Table 3a:
Summary of Closure Sample Results

TETRA Technologies Inc./Swiftwater Inc
OGOPOGO FEDERAL COM #422H (nAPP2230526211)

Sample ID	Sample Date	Proposed Action	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	**Total TPH** mg/Kg	Cl- mg/Kg
NMOCD Criteria			50	10				100	600
Excavation 1 CS East Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	176
Excavation 1 CS NW Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
Excavation 1 CS North Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
Excavation 1 CS SW Wall	7/13/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	96
Excavation 1 CS South Wall	7/13/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	18.1	<10.0	<30.0	1120
EX2 WWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 WWCS 2	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 WWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 WWCS 4	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	240
EX2 WWCS 5	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EX2 NWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	576
EX2 NWCS 2	7/28/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	1720
EX2 NWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	544
EX2 NWCS 4	7/28/2023	in-situ unsafe to excavate	<0.100	<0.050	<10.0	18.7	<10.0	<30.0	752
EX2 EWCS 1	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EX2 EWCS 2	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EX2 EWCS 3	7/28/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX2 CS South Wall 1	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	128
EX2 CS South Wall 2	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	208
EX2 CS South Wall 3	8/4/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	144
EX2 CS South Wall 4	8/4/2023	in-situ	<0.100	<0.050	<10.0	31.6	<10.0	<30.0	272
EXCAVATION 2 CS NW 5	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	256
EXCAVATION 2 CS NW 6	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS EW 6	8/14/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112
EXCAVATION 2 CS NW 5	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	64
EXCAVATION 2 CS NW 7	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS NW 8	8/15/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX 2 CS NW 5	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS NW 7	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS NW 8	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	16
EX 2 CS EW 4	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS EW 7	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS EW 5	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EX 2 CS EW 8	8/16/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	224
EXCAVATION 2 CS SW 5	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS SW 6	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	160
EXCAVATION 2 CS SW 7	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	272
EXCAVATION 2 CS SW 8	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	80
EXCAVATION 2 CS SW 9	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	32
EXCAVATION 2 CS NW 9	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS NW 10	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	48
EXCAVATION 2 CS NW 11	8/17/2023	in-situ	<0.100	<0.050	<10.0	<10.0	<10.0	<30.0	112

APPENDIX A
FORMS C141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Jessica Zemen	Contact Telephone: 432-530-9187
Contact email: jessicazemen@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.40448 Longitude: -103.55576
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: DL 10 15 OGOPOGO FEDERAL COM #422H	Site Type: Oil
Date Release Discovered: 10/16/2022	API# *(if applicable):* 30-025-49906

Unit Letter	Section	Township	Range	County
I	10	22S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 30 bbls	Volume Recovered (bbls): 27 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

An 8” hose failed behind the connection that resulted in a release to land.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume was over 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Jessica Zemen sent an email to Mike Bratcher on 10/16/2022 detailing the release information.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: ____Jessica Zemen_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: Jessica K Zemen Date: ___10/17/2022_____

email: _____jessicazemen@chevron.com _____ Telephone: ____432-530-9187_____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229333460
District RP	
Facility ID	
Application ID	

Spill Calculations:

	Horizontal Dimensions			Vertical Dimensions		Calculated Volume	
	Diameter (feet)	Length (feet)	Width (feet)	Abovegrade Depth (feet)	Belowgrade Depth (feet)	Gallons	Barrels
Area 1	N/A	120	4	0.17	N/A	612.00	14.57
Area 2	N/A	60	18	0.08	N/A	648.00	15.43
					Total Volume =	1260.00	30.00

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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	nAPP2230526211
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Jessica Zemen	Contact Telephone: 432-530-9187
Contact email: jessicazemen@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.40448 Longitude: -103.55576
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: DL 10 15 OGOPOGO FEDERAL COM #422H	Site Type: Oil
Date Release Discovered: 10/20/2022	API# *(if applicable):* 30-025-49906

Unit Letter	Section	Township	Range	County
I	10	22S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 1091 bbls	Volume Recovered (bbls): 1000 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A third party's main water supply line to the frac operations had an equipment failure when the manifold slid out of the manifold head clamp.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2230526211
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume was over 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Jessica Zemen sent an email to Mike Bratcher on 10/21/2022 detailing the release information.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: ____Jessica Zemen_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: Jessica K Zemen Date: ___10/31/2022_____

email: _____jessicazemen@chevron.com _____ Telephone: ____432-530-9187_____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2230526211
District RP	
Facility ID	
Application ID	

Spill Calculations:

Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
1	2 inches		rectangular (169*72*0.1667)		361.27
2	0.25 inches		rectangular (135*20*0.0208)		10.02
3					
4					
5					
6					
7					
8					
			Total Fluid	0	371

6 Vacuum Trucks Loads

6 x 120 bbls. = 720 bbls.

Total Fluid Released

720 bbls. + 371 bbls. = **1091 bbls.**

nAPP2229333460 and NAPP2230526211 48 hour sample notification

Austin Weyant <austin@atkinseng.com>

Fri 8/11/2023 10:09 AM

To:OCD.Enviro@emnrd.nm.gov <OCD.Enviro@emnrd.nm.gov>
Cc:Knight, Tami C. <tknight@slo.state.nm.us>;Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>;Amy Barnhill <ABarnhill@chevron.com>;Mark Andersen <MAndersen@tetratec.com>

Closure sampling event for the release nAPP2229333460 and NAPP2230526211 will be completed the morning of Monday 08/11/23 All closure sampling activities will meet or exceed the requirements of 19.15.29. or previously approved by the division.

Thank you

J. Austin Weyant
Project Manager
Geoscientist

213 W Mermod, Carlsbad NM 88220
O. 575.624.2420
C. 575.626.3993

Atkins
ENGINEERING ASSOCIATES INC.

APPENDIX B
NMOSE WELLS REPORT

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO	OSE FILE NO(S).
CP-1724-POD-1 OGS North		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Merchant Livestock Company/Glenn's Water Well Service, Inc.	575-398-2424

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
PO Box 692	Tatum	NM	88267

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	23	44.39	N
	LONGITUDE	-103	31	1.34	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW1/4 NW1/4 NW1/4 Section 18, Township 22 South, Range 34 East on Merchant Livestock Company Land

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 421	Corky Glenn	Glenn's Water Well Service, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
04/16/19	04/20/19	1,172'	1,172'	800'

COMPLETED WELL IS: [✓] ARTESIAN [ ] DRY HOLE [ ] SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 484'

DRILLING FLUID: [ ] AIR [✓] MUD ADDITIVES – SPECIFY:

DRILLING METHOD: [✓] ROTARY [ ] HAMMER [ ] CABLE TOOL [ ] OTHER – SPECIFY

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	20"	ASTM A53 Sch 40 Steel 16" OD	None	15.5	.25	---
0	799	14.75"	API Steel Grade J-55/K-55 10.75" OD	Thread & Collar	10.05	.35	---
752	1,172	9.875"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25	1/8"
			(420' Total) Bottom 378 Perforated				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	40'	20"	Cemented	2 yards	Top Pour
0	799'	14.75"	Float and Shoe Cemented to Surface 29 Barrels	325 Sacks Pumped	Circulated

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1724	POD NO.		TRN NO. 628588
LOCATION 225.34E.18.113		WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	5	5	Sand	Y ✓ N	
5	30	25	Caliche	Y ✓ N	
30	80	50	Sand & Red Clay	Y ✓ N	
80	450	370	Red Clay	Y ✓ N	
450	510	60	Red Shale	Y ✓ N	
510	580	70	Brown Shale	Y ✓ N	
580	799	219	Brown & Red Shale	Y ✓ N	
799	919	120	Sand Rock	✓ Y N	
919	950	31	Red & Blue Shales Stringers of Sand	✓ Y N	75.00
950	1,140	190	Sand Stone	✓ Y N	
1,140	1,172	32	Red Shale	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 75.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

0' to 799' drilled with mud.
799' to 1,172' drilled with air and foam.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Corky Glenn — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/16/19 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
CP-1724-POD-1 OGS North		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Merchant Livestock Company/Glenn's Water Well Service, Inc.	575-398-2424

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
PO Box 692	Tatum	NM	88267

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	23	44.39	N
	LONGITUDE	-103	31	1.34	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW1/4 NW1/4 NW1/4 Section 18, Township 22 South, Range 34 East on Merchant Livestock Company Land

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 421	Corky Glenn	Glenn's Water Well Service, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
04/16/19	04/20/19	1,172'	1,172'	800'

COMPLETED WELL IS: [✓] ARTESIAN [ ] DRY HOLE [ ] SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 484'

DRILLING FLUID: [ ] AIR [✓] MUD ADDITIVES – SPECIFY:

DRILLING METHOD: [✓] ROTARY [ ] HAMMER [ ] CABLE TOOL [ ] OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	20"	ASTM A53 Sch 40 Steel 16" OD	None	15.5	.25	---
0	799	14.75"	API Steel Grade J-55/K-55 10.75" OD	Thread & Collar	10.05	.35	---
752	1,172	9.875"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25	1/8"
			(420' Total) Bottom 378 Perforated				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	40'	20"	Cemented	2 yards	Top Pour
0	799'	14.75"	Float and Shoe Cemented to Surface 29 Barrels	325 Sacks Pumped	Circulated

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 717713
File Nbr: CP 01899
Well File Nbr: CP 01899 POD1

Mar. 22, 2022

MELODIE SANJARI
MARATHON OIL
4111 S TIDWELL RD
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 01/31/2022.

The Well Record was received in this office on 03/11/2022, stating that it had been completed on 02/24/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/31/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Megen Telles
(575)622-6521

drywell

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	9	9	Sand, Fine-grained, poorly graded with caliche, Brown	Y ✓ N	
9	19	10	Sand, Fine-grained, poorly graded with caliche, Tan	Y ✓ N	
19	34	15	Sand, Fine-grained, poorly graded with sub-angular gravel, Tan	Y ✓ N	
34	44	10	Sand, Fine-grained, poorly graded, Tan	Y ✓ N	
44	49	5	Sand, Fine-grained, poorly graded with sub-angular gravel, Brown	Y ✓ N	
49	101	52	Clay, with sand ,Dry, Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and he soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips ten feet below ground surface to surface.

RECEIVED OSE DIT MAR 11 2022 8:40:51

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

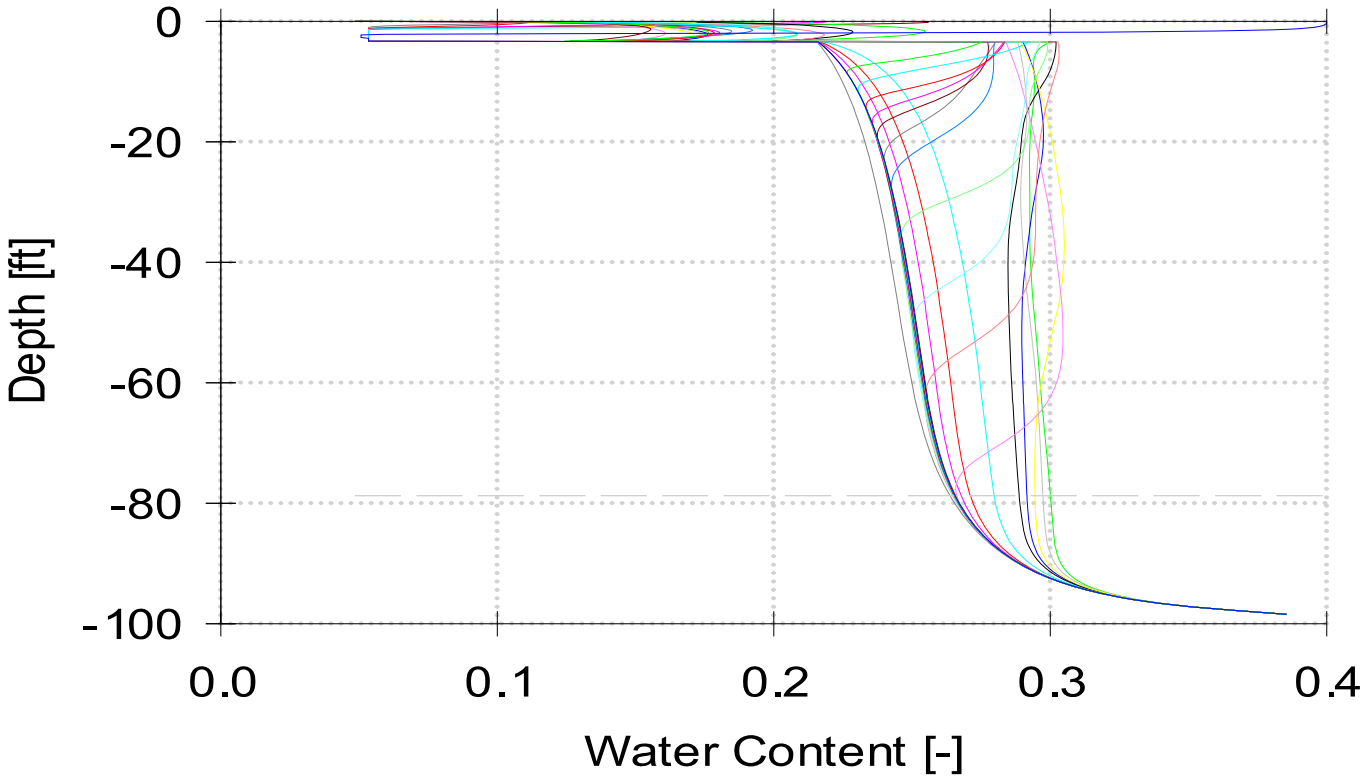
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 3/10/2022

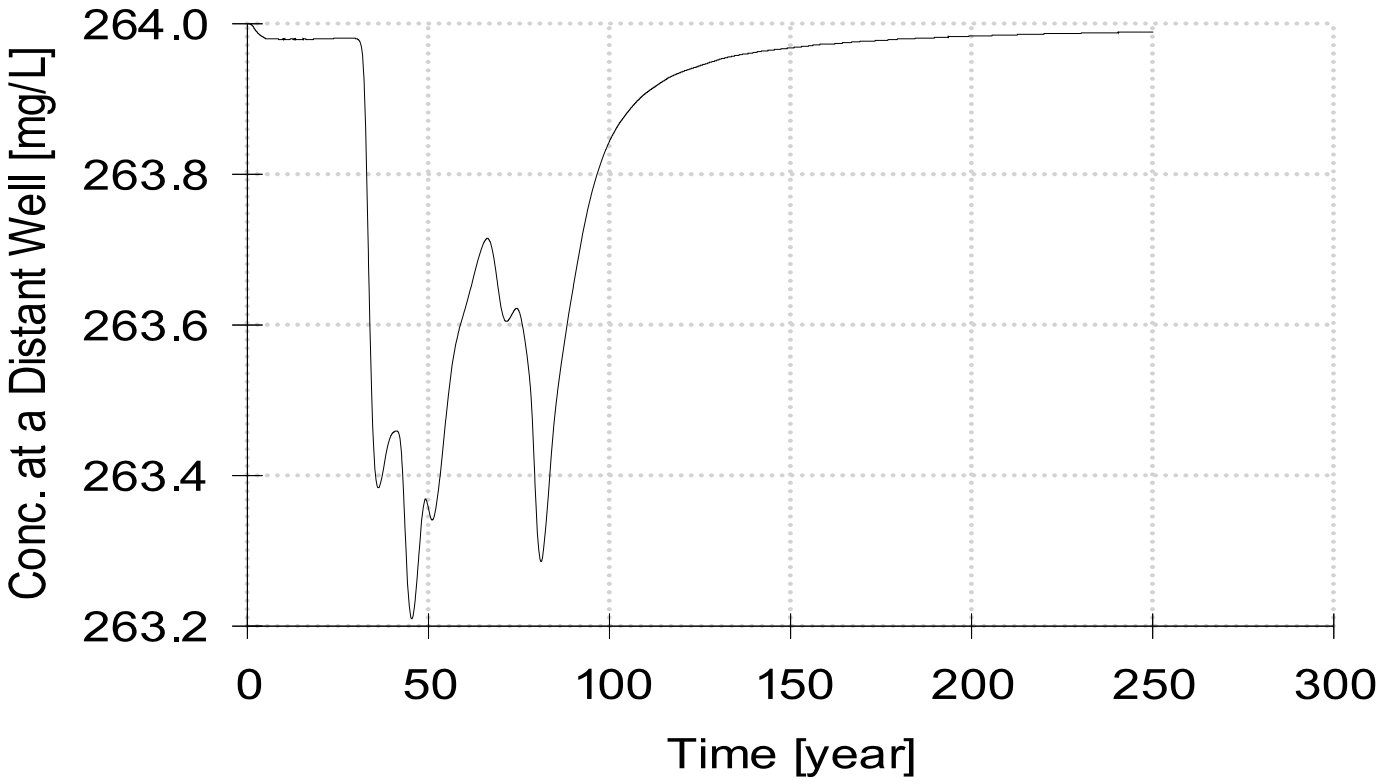
SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-1899	POD NO. POD1	TRN NO. 717713	
LOCATION SESESE 8 22S 33E		WELL TAG ID NO. NA	PAGE 2 OF 2



Max Concentration 264.000 [mg/L] at time 0.077 Year



Project: Amigo2.ami
Path: C:\Users\Austin\OneDrive - Atkins Engineering Associates, Inc\EMs Raw\Tetra\Amigo2.ami
Date: 2/16/2024
Units: English (inches)
Climate: Arid Hot (NM/W.Texas, Hobbs)
Plant Uptake Trigger: 1% Input Concentration

Groundwater Characteristics
Background Cl Concentration in Aquifer: 264 [mg/L]
Aquifer porosity: 0.3 [-]
Groundwater Table Depth: 80 [ft]
Aquifer Thickness: 341.001 [ft]
Slope of Water Table: 0.05 [-]
Hydraulic Conductivity: 3.28084 [ft/d]
Groundwater Flux: 55.9385 [ft2/d]

Source Characteristics
Chloride Load:: 0.59442 [kg/m2]
Max. length of the spill in direction of GW flow:: 300 [ft]

Soil Profiles
Surface Layer: Caliche
Soil Profile: P9 - Sandy Clay (30)

Distant Well Parameters
Distance to Well:328.08[ft]
Source Width:300[ft]
Longitudinal Dispersivity:10[-]
Transverse Dispersivity:1[-]

APPENDIX C

PHOTO LOG AND FIELD NOTES

Received by OCD: 2/12/2025 11:05:06 AM

SW W NW N

210 240 270 300 330 0 30

297°NW (T) 32°24'17"N, 103°33'20"W ±13ft 3573ft

North excavation

Ogopogo
13 Jul 2023, 14:50:56

Released to Imaging: 2/12/2025 2:05:22 PM

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Jul 25, 2023 at 7:58:24 AM
32° 24' 15.913" N, 103° 33' 21.811" W
Lea County
N
W
E
S

Jul 25, 2023 at 7:57:44 AM
32° 24' 15.768" N, 103° 33' 19.598" W
Lea County
N
W
E
S

Jul 25, 2023 at 7:57:56 AM
32° 24' 15.768" N, 103° 33' 19.598" W
Lea County

APPENDIX D

LABORATORY ANALYTICAL REPORTS

Page 384 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen ballen@sesi-NM.com	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	ATK-22-003 Project Owner:	City:	
Project Name:	OGO POGO Confirmation sampling	State: Zip:	
Project Location:		Phone #:	
Sampler Name:	Robert Martinez	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE (2023)	TIME	ANALYSIS REQUEST: BTEX	DRO - GRO - MRO	Chlorides
H233697																	
1	Excavation 1 CS2	G	1			X					X		07/13	1130	✓	✓	✓
2	" " CS1													1145			
3	" " CS3													1230			
4	" " CS4													1430			
5	" " CS East Wall												07/13	1530			
6	" " CS NW Wall												07/14	1050			
7	" " CS North Wall													1050			
8	" " CS SW Wall													1230			
9	" " CS South Wall	G	1			X					X		07/14	1400	✓	✓	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7/17	Received By:	
	Time: 1558		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: 0.6c

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes ☐ No	☑ Yes ☐ No	

Phone Result: ☐ Yes ☒ No Add'l Phone #:
Fax Result: ☐ Yes ☒ No Add'l Fax #:
REMARKS: email Bob Allen with preliminary chloride results

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

July 24, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 17:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 1 (H233705-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *99.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 2 (H233705-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 3 (H233705-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *97.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 4 (H233705-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *97.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 5 (H233705-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *96.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 6 (H233705-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	07/22/2023	ND	2.05	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.19	110	2.00	2.10	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.59	110	6.00	2.71	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 7 (H233705-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *91.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.5 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 8 (H233705-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *94.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 9 (H233705-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *91.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Bob Allen
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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 10 (H233705-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 11 (H233705-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.3	200	7.41	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	170	85.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 12 (H233705-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	174	87.0	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *89.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/17/2023	Sampling Date:	07/17/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 13 (H233705-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	174	87.0	200	6.51	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety & Environmental Solutions Inc	**BILL TO** P.O. #:	
Project Manager:	Bob Allen	Company:	
Address:	705 Clinton PO Box 1613	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575 397 0510 Fax #: 575 393 4388	City:	
Project #:	ATK-22-003 Project Owner:	State: Zip:	
Project Name:	OG 0 POGO Confirmation Sampling	Phone #:	
Project Location:		Fax #:	
Sampler Name:	Roberto Martinez		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO MOR 8015
H233705																	
1	Excavation 2	C	1			X					X		7-17-23	0830	✓	✓	✓
2	" "	G	1											0900			
3	" "		1											0925			
4	" "		1											0950			
5	" "		1											1010			
6	" "		1										7-17-23	1055			
7	" "		1											1132			
8	" "		1											1150			
9	" "		1											1230			
10	" "	G	1			X					X		7-17-23	1245	✓	✓	✓

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Relinquished By: Roberto Martinez	Date: 7-17-23 Time: 1730	Received By:	Verbal Result: ☐ Yes ☒ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: ballen@sesi-nm.com rmartinez@sesi-nm.com
			REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.9 Corrected Temp. °C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO
			Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #113 #140 Correction Factor -0.6°C Tp 7/17/23
			Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety & Environmental Solutions Inc	**BILL TO**	
Project Manager:	BOB Allen	P.O. #:	
Address:	703 Clinton	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 3970510	Fax #: 575 393 4388	Address:
Project #:	ATK-22-003	Project Owner:	City:
Project Name:	~~COG~~ POGO Confirmation Sampling		State: Zip:
Project Location:			Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY					MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	DRO - GRO - MOR 8015	Chlorides
H233705																		
11	Excavation 2	CS 11	G	1			X					X		7-17-23	1305	X	X	X
12	" "	CS 12	G	1			X					X		7-17-23	1320	X	X	X
13	" "	CS 13	G	1			X					X		7-17-23	1400	X	X	X

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Relinquished By:	Date: 7-17-23	Received By:	Verbal Result: ☐ Yes ☒ No Add'l Phone #:
Roberto Martinez	Time: 1730		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		BAllen@sesi-nm.com, rmartinez@sesi-nm.com

Delivered By: (Circle One)	Observed Temp. °C 4.9	Sample Condition Cool ☑ Yes Intact ☑ Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☒ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☐ No ☐ No	TO	Thermometer ID #113 #140 Correction Factor ~~0.6°C~~ 7/17/23

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

July 28, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 16:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 21 (H233841-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	**13.5**	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 22 (H233841-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *93.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 23 (H233841-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *95.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 36 (H233841-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *88.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 40 (H233841-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *89.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/21/2023	Sampling Date:	07/20/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS 41 (H233841-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.17	103	6.00	7.34	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *92.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety & Environmental Solutions	**BILL TO** P.O. #:	
Project Manager:	Bob Allen	Company:	
Address:	703 Clinton PO Box 1613	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575 397 0510 Fax #: 575 393 4388	City:	
Project #:	ATK-22-003 Project Owner:	State: Zip:	
Project Name:	Ogopogo Conformation Samples	Phone #:	
Project Location:		Fax #:	
Sampler Name:	Roberto Martinez		

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	Chlorides	DRO-GRO-MOR 8015
H233841																	
1	Excavation 2 CS 21	G	1			X					X		7-20-23	0830	X	X	X
2	" " CS 22	G	1											0855			
3	" " CS 23	G	1											0935			
4	" " CS 34	G	1											1245			
5	" " CS 40	G	1											1505			
6	" " CS 41	G	1			X					X		7-20-23	1535	X	X	X

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Relinquished By:	Roberto Martinez	Date: 7-21-23 Time: 1655	Received By: Tamara Oldaker
Relinquished By:		Date: Time:	Received By:
Delivered By: (Circle One)	Sampler - UPS - Bus - Other:	Observed Temp. °C 5.7 Corrected Temp. °C	Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No
CHECKED BY: (Initials)			

Verbal Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
All Results are emailed. Please provide Email address:
ballen@sesi-nm.com, rmartinez@sesi-nm.com
REMARKS: (575) 392 0510
Please phone Bob Allen about results for Clorides

Turnaround Time: Standard ☒ Rush ☐
Thermometer ID #113 #140
Correction Factor -0.6°C TO 7/21/23

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

July 31, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 07/25/23 8:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 26 (H233864-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/29/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *121 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 27 (H233864-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/29/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *125 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 35 (H233864-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/29/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 44 (H233864-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/29/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *131 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 45 (H233864-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/29/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *134 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/25/2023	Sampling Date:	07/24/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EXCAVATION 2 CS # 46 (H233864-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.17	108	2.00	0.291	
Toluene*	<0.050	0.050	07/30/2023	ND	2.17	109	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.23	104	6.00	1.15	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/27/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2023	ND	194	97.1	200	2.01	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	211	106	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Safety & Environmental Solutions Inc
Project Manager: Bob Allen
Address: 703 Clinton
City: Hobbs State: NM Zip: 88240
Phone #: 575 397 0510 Fax #: 575 397 4388
Project #: ATK-22-003 Project Owner:
Project Name: Ogopogo Confirmation Samples
Project Location:
Sampler Name: Roberto Martinez

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	DRO - GRO - MOR 8015	Chlorides
H233864																	
1	Excavation 2 CS #26	G	1			X					X		7-24-23	0730	X	X	X
2	" " CS #27		1											755			
3	" " CS #35		1											0900			
4	" " CS #44		1											1300			
5	" " CS #45		1											1340			
6	" " CS #46	G	1			X					X		7-24-23	1420	X	X	X

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Relinquished By: Roberto Martinez Date: 7-25-23 Time: 0858
Received By: Tamara Oldaker
Relinquished By: Date: Time:
Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 3.1
Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) VO

Verbal Result: ☑ Yes ☐ No Add'l Phone #: 575 397 0510
All Results are emailed. Please provide Email address:
REMARKS: Please Call Bob Allen with Chloride results
ballen@sesi-nm.com martinez@sesi-nm.com
Turnaround Time: Standard ☒ Rush ☐
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C
Thermometer ID #113 #140
Correction Factor -0.6°C 7/25/23

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 07, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 07/31/23 16:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 WWCS 1 (H234026-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/04/2023	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *121 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *137 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 WWCS 2 (H234026-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *139 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 WWCS 3 (H234026-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *131 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 WWCS 4 (H234026-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *121 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *132 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 WWCS 5 (H234026-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 NWCS 1 (H234026-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	187	93.4	200	8.51	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	198	98.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *125 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *138 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 NWCS 2 (H234026-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1720**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *89.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.5 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 NWCS 3 (H234026-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *92.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.7 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 NWCS 4 (H234026-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	**18.7**	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *93.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
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703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 EWCS 1 (H234026-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/06/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *94.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 EWCS 2 (H234026-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/07/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *89.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.0 %* *49.1-148*

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Analytical Results For:

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703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	07/31/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EX 2 EWCS 3 (H234026-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2023	ND	2.25	113	2.00	2.12	
Toluene*	<0.050	0.050	08/07/2023	ND	2.19	109	2.00	2.17	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	2.13	106	2.00	2.46	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	6.39	106	6.00	1.35	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/04/2023	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	171	85.5	200	9.67	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	162	81.0	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *90.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.0 %* *49.1-148*

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

		BILL TO	
Company Name:	Safety and Environmental Solutions	P.O. #:	
Project Manager:	Bob Allen	Company:	Same
Address:	703 East Clinton, PO Box 1613	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575 397-0510 Fax #: 575 393-4388	City:	
Project #:	ATK-22-003 Project Owner:	State:	Zip:
Project Name:	Osopego Confirmation Sampling	Phone #:	
Project Location:		Fax #:	
Sampler Name:	Roberto Martinez		

ANALYSIS REQUEST: BTEX; TPH 8015 M; Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H234026														
1	Ex 2 EWCS 1	G	1			X					X		7-28-23	0830
2	Ex 2 WWCS 2	G	1											0900
3	Ex 2 WWCS 3	G	1											935
4	Ex 2 WWCS 4	G	1											1015
5	Ex 2 WWCS 5	G	1											1040
6	Ex 2 NWCS 1	G	1											1210
7	Ex 2 NWCS 2	G	1											1230
8	Ex 2 NWCS 3	G	1											1300
9	Ex 2 NWCS 4	G	1											1325
10	Ex 2 EWCS 1	G	1			X					X		7-28-23	1400

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Relinquished By: Roberto Martinez	Date: 7/28 Time: 1700	Received By:	
Relinquished By:	Date: 7/31/23 Time: 16:47	Received By: Jodi Henson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #140	4.9°C	Sample Condition Cool: Yes / No; Intact: Yes / No	CHECKED BY: (Initials)

Phone Result: Yes / No Add'l Phone #: 575 397 0510
Fax Result: Yes / No Add'l Fax #:
REMARKS: ballen@sesi-nm.com
rmartinez@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	ATK-22-003 Project Owner:	City:	
Project Name:	Osopogo Confirmation Samplins	State: Zip:	
Project Location:		Phone #:	
Sampler Name:	Roberto Martinez	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTex	TPH 8015 M	Chlorides
H234026																	
11	EX2 EWCS 2	G	1			X					X		7-28-23	1420	X	X	X
12	EX2 EWCS 3	G	1			X					X		7-28-23	1450	X	X	X

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Relinquished By: Roberto Martinez	Date: 7/28 Time: 1700	Received By:	
Relinquished By:	Date: 7/31/23 Time: 10:47	Received By: Jodi Henson	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.9°C #140	Sample Condition: Cool: Yes / No; Intact: Yes / No	CHECKED BY: (Initials)

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: ballen@sesi-nm.com
rmartinez@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 07, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/01/23 15:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 28 (H234057-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	162	81.2	200	2.28	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	172	85.8	200	0.673	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *134 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *147 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 29 (H234057-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	162	81.2	200	2.28	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	172	85.8	200	0.673	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *139 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *153 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 30 (H234057-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	162	81.2	200	2.28	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	172	85.8	200	0.673	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *132 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *149 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 31 (H234057-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	162	81.2	200	2.28	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	172	85.8	200	0.673	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *128 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *143 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 32 (H234057-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 33 (H234057-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 34 (H234057-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 37 (H234057-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 38 (H234057-09)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 39 (H234057-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 42 (H234057-11)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EX 2 CS 43 (H234057-12)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.90	94.9	2.00	5.09	
Toluene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	5.29	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.81	90.6	2.00	4.52	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.28	87.9	6.00	6.17	
Total BTEX	<0.300	0.300	08/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/07/2023	ND	432	108	400	7.14	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2023	ND	153	76.6	200	3.57	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	167	83.7	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *124 %* *49.1-148*

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CARDINAL Laboratories

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions
Project Manager:	Bob Allen
Address:	703 East Clinton, PO Box 1613
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397-0510 Fax #: 575 393-4388
Project #:	ATK-22-003 Project Owner:
Project Name:	Ogopogo Confirmation Samplings
Project Location:	Ogopogo
Sampler Name:	Roberto Martinez

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	Chlorides	DRO - GRO mor 8015
H234057																	
1	Ex 2 CS 28	G	1			X					X		8-1	0825	X	X	X
2	Ex 2 CS 29		1											0840			
3	Ex 2 CS 30		1											0905			
4	Ex 2 CS 31		1											0930			
5	Ex 2 CS 32		1											0955			
6	Ex 2 CS 33		1											1015			
7	Ex 2 CS 34		1											1040			
8	Ex 2 CS 37		1											1055			
9	Ex 2 CS 38		1											1110			
10	Ex 2 CS 39	C	1			X					X		8-1	1135	X	X	X

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Relinquished By:	Date: 8-1-23	Received By:	
Roberto Martinez	Time: 1532		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: 3.9°C

Sample Condition: Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No

CHECKED BY: (Initials) TB

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: ballen@sesi-nm.com
rmartinez@sesi-nm.com

Standard Return

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Page 451 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions
Project Manager:	Bob Allen
Address:	703 East Clinton, PO Box 1613
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397-0510 Fax #: 575 393-4388
Project #:	ATK-22-003 Project Owner:
Project Name:	Ogopogo ~~Confirmation~~ Sampling
Project Location:	Ogopogo
Sampler Name:	Roberto Martinez

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	B Tex	Chlorides	DRO-GRO mor 8015
H234057																	
11	Ex 2 CS 42	G	1			X					X		8-1	1130	X	X	X
12	Ex 2 CS 43	G	1			X					X		8-1	1210	X	X	X

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Relinquished By:	Date: 8-1-23	Received By:	
Roberto Martinez	Time: 1532		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.9c #140

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
ballen@sesi-nm.com
rmartinez@sesi-nm.com

Standard Return

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 11, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 12:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 47 (H234180-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.22	111	2.00	1.55	
Toluene*	<0.050	0.050	08/10/2023	ND	2.13	106	2.00	1.06	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.05	102	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.13	102	6.00	1.11	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 48 (H234180-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.22	111	2.00	1.55	
Toluene*	<0.050	0.050	08/10/2023	ND	2.13	106	2.00	1.06	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.05	102	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.13	102	6.00	1.11	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *99.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

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Analytical Results For:

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Bob Allen
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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 49 (H234180-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.22	111	2.00	1.55	
Toluene*	<0.050	0.050	08/10/2023	ND	2.13	106	2.00	1.06	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.05	102	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.13	102	6.00	1.11	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *98.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 50 (H234180-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 51 (H234180-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 52 (H234180-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 53 (H234180-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 54 (H234180-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *99.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 55 (H234180-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 56 (H234180-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *95.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 57 (H234180-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	**10.6**	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS 58 (H234180-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *90.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS SOUTH WALL 1 (H234180-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS SOUTH WALL 2 (H234180-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *88.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS SOUTH WALL 3 (H234180-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *94.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/07/2023	Sampling Date:	08/04/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON		

Sample ID: EX 2 CS SOUTH WALL 4 (H234180-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	**31.6**	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *97.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety & Environmental Solutions Inc
Project Manager:	Bob Allen
Address:	703 Clinton
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397 0510 Fax #:
Project #:	ATK-22-003 Project Owner: Devon
Project Name:	Ocopogo Confirmation Samples
Project Location:	Ocopogo
Sampler Name:	Roberto Martinez

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	Chlorides	DRO-GRO-MOR 8015
H234180-1	EX 2 CS 47	G	1			X					X		8-4	0830	X	X	X
2	" " 48		1											1305			
3	" " 49		1											1330			
4	" " 50		1											1350			
5	" " 51		1										8-4	1415			
6	" " 52		1											1110			
7	" " 53		1											1135			
8	" " 54		1											1150			
9	" " 55		1											1210			
10	" " 56	G	1			X					X		8-4	1230	X	X	X

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Relinquished By:	Roberto Martinez	Date: 8-4 Time: 1702	Received By:
Relinquished By:		Date: 8/7/23 Time: 1258	Received By:
Delivered By: (Circle One)	Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1	Corrected Temp. °C
Sample Condition	Cool: Yes / No	Intact: Yes / No	CHECKED BY: (Initials)

Verbal Result: Yes No Add'l Phone #: 5753187799
All Results are emailed. Please provide Email address:
ballen@sesi-nm.com rmartinez@sesi-nm.com
REMARKS:

Turnaround Time: Standard Rush
Thermometer ID #140
Correction Factor 0°C

Bacteria (only) Sample Condition: Cool Yes / No; Intact Yes / No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Page 471 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	ATK-22-0013	Project Owner: Devon	City:
Project Name:	Ogopogo Confirmation Samples		State: Zip:
Project Location:	Ogopogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - MRO 8015
H234180																	
11	~~Ex~~ 2 CS 57	G	1			X					X		8-4	1448	X	X	X
12	Ex 2 CS 58	G	1			X					X			1520	X	X	X
13	Ex 2 CS South Wall 1	G	1			X					X			1540	X	X	X
14	Ex 2 CS South Wall 2	G	1			X					X			1555	X	X	X
15	Ex 2 CS South Wall 3	G	1			X					X			1245	X	X	X
16	Ex 2 CS South Wall 4	G	1			X					X		8-4	1255	X	X	X

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Relinquished By: Roberto Martinez	Date: 8/4/23 Time: 1700	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Relinquished By:	Date: 8/7/23 Time: 1258	Received By: SRodriguez	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.1c #140	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: rmartinez@sesi-nm.com bollen@sesi-nm.com Standard

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 23, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 12:58.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX 2 CS 47	H234180-01	Soil	04-Aug-23 08:30	07-Aug-23 12:58
EX 2 CS 48	H234180-02	Soil	04-Aug-23 13:05	07-Aug-23 12:58
EX 2 CS 49	H234180-03	Soil	04-Aug-23 13:30	07-Aug-23 12:58
EX 2 CS 50	H234180-04	Soil	04-Aug-23 13:50	07-Aug-23 12:58
EX 2 CS 51	H234180-05	Soil	04-Aug-23 14:15	07-Aug-23 12:58
EX 2 CS 52	H234180-06	Soil	04-Aug-23 11:10	07-Aug-23 12:58
EX 2 CS 53	H234180-07	Soil	04-Aug-23 11:35	07-Aug-23 12:58
EX 2 CS 54	H234180-08	Soil	04-Aug-23 11:50	07-Aug-23 12:58
EX 2 CS 55	H234180-09	Soil	04-Aug-23 12:16	07-Aug-23 12:58
EX 2 CS 56	H234180-10	Soil	04-Aug-23 12:30	07-Aug-23 12:58
EX 2 CS 57	H234180-11	Soil	04-Aug-23 14:48	07-Aug-23 12:58
EX 2 CS 58	H234180-12	Soil	04-Aug-23 15:20	07-Aug-23 12:58
EX 2 CS SOUTH WALL 1	H234180-13	Soil	04-Aug-23 15:40	07-Aug-23 12:58
EX 2 CS SOUTH WALL 2	H234180-14	Soil	04-Aug-23 15:55	07-Aug-23 12:58
EX 2 CS SOUTH WALL 3	H234180-15	Soil	04-Aug-23 12:45	07-Aug-23 12:58
EX 2 CS SOUTH WALL 4	H234180-16	Soil	04-Aug-23 12:55	07-Aug-23 12:58

08/23/23 - Client corrected the project owner (see COC). This is the revised report and will replace the one sent on 08/ 11/23.

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 47

H234180-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.8 %*	*71.5-134*		*3080826*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*95.0 %*	*48.2-134*		*3080802*	MS	*08-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*49.1-148*		*3080802*	MS	*08-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 48

H234180-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.4 %*	*71.5-134*		*3080826*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*99.1 %*	*48.2-134*		*3080802*	MS	*08-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*3080802*	MS	*08-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 49

H234180-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**224**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080826	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.1 %*	*71.5-134*		*3080826*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*98.1 %*	*48.2-134*		*3080802*	MS	*08-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*49.1-148*		*3080802*	MS	*08-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 50

H234180-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	08-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*95.1 %*	*48.2-134*		*3080802*	MS	*08-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*49.1-148*		*3080802*	MS	*08-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 51

H234180-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*100 %*	*48.2-134*		*3080802*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3080802*	MS	*09-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 52

H234180-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*48.2-134*		*3080802*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*116 %*	*49.1-148*		*3080802*	MS	*09-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 53

H234180-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*96.4 %*	*48.2-134*		*3080802*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*49.1-148*		*3080802*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS 54

H234180-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**720**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*99.6 %*	*48.2-134*		*3080802*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*3080802*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

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EX 2 CS 55

H234180-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**256**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080802	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*48.2-134*		*3080802*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*111 %*	*49.1-148*		*3080802*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

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EX 2 CS 56

H234180-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3080903	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*95.4 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*111 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

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EX 2 CS 57

H234180-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	**10.6**		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*96.4 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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EX 2 CS 58

H234180-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*90.9 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

EX 2 CS SOUTH WALL 1

H234180-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*111 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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EX 2 CS SOUTH WALL 2

H234180-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**208**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*88.1 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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EX 2 CS SOUTH WALL 3

H234180-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**144**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*94.2 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*111 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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Analytical Results For:

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EX 2 CS SOUTH WALL 4

H234180-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**272**		16.0	mg/kg	4	3080904	AC	09-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080827	MS	10-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3080827*	MS	*10-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
DRO >C10-C28*	**31.6**		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080820	MS	09-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*97.3 %*	*48.2-134*		*3080820*	MS	*09-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*112 %*	*49.1-148*		*3080820*	MS	*09-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080903 - 1:4 DI Water										
Blank (3080903-BLK1)				Prepared & Analyzed: 09-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3080903-BS1)				Prepared & Analyzed: 09-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3080903-BSD1)				Prepared & Analyzed: 09-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 3080904 - 1:4 DI Water										
Blank (3080904-BLK1)				Prepared & Analyzed: 09-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3080904-BS1)				Prepared & Analyzed: 09-Aug-23						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3080904-BSD1)				Prepared & Analyzed: 09-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080826 - Volatiles										
Blank (3080826-BLK1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*95.3*	*71.5-134*			
LCS (3080826-BS1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	2.22	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.13	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	89-129			
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125			
Total Xylenes	6.13	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0451*		mg/kg	*0.0500*		*90.3*	*71.5-134*			
LCS Dup (3080826-BSD1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	1.55	15.8	
Toluene	2.11	0.050	mg/kg	2.00		105	86-128	1.06	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	85.9-128	1.82	16	
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	89-129	0.933	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.5	86.1-125	1.47	16.7	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	88.2-128	1.11	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0455*		mg/kg	*0.0500*		*91.0*	*71.5-134*			
Batch 3080827 - Volatiles										
Blank (3080827-BLK1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080827 - Volatiles										
Blank (3080827-BLK1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0505*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS (3080827-BS1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130			
Toluene	1.99	0.050	mg/kg	2.00		99.7	86-128			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	85.9-128			
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		98.0	86.1-125			
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0497*		mg/kg	*0.0500*		*99.3*	*71.5-134*			
LCS Dup (3080827-BSD1)				Prepared: 08-Aug-23 Analyzed: 10-Aug-23						
Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	0.529	15.8	
Toluene	1.99	0.050	mg/kg	2.00		99.3	86-128	0.478	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	85.9-128	0.945	16	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	89-129	2.43	16.2	
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	86.1-125	1.02	16.7	
Total Xylenes	6.11	0.150	mg/kg	6.00		102	88.2-128	1.97	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0510*		mg/kg	*0.0500*		*102*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080802 - General Prep - Organics										
Blank (3080802-BLK1)				Prepared & Analyzed: 08-Aug-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*40.6*		mg/kg	*50.0*		*81.3*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.3*		mg/kg	*50.0*		*90.7*	*49.1-148*			
LCS (3080802-BS1)				Prepared & Analyzed: 08-Aug-23						
GRO C6-C10	162	10.0	mg/kg	200		81.1	66.4-123			
DRO >C10-C28	166	10.0	mg/kg	200		82.8	66.5-118			
Total TPH C6-C28	328	10.0	mg/kg	400		82.0	77.6-123			
Surrogate: 1-Chlorooctane	*42.7*		mg/kg	*50.0*		*85.4*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*49.3*		mg/kg	*50.0*		*98.5*	*49.1-148*			
LCS Dup (3080802-BSD1)				Prepared & Analyzed: 08-Aug-23						
GRO C6-C10	166	10.0	mg/kg	200		83.2	66.4-123	2.46	17.7	
DRO >C10-C28	168	10.0	mg/kg	200		84.0	66.5-118	1.40	21	
Total TPH C6-C28	334	10.0	mg/kg	400		83.6	77.6-123	1.93	18.5	
Surrogate: 1-Chlorooctane	*43.5*		mg/kg	*50.0*		*87.0*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*48.2*		mg/kg	*50.0*		*96.5*	*49.1-148*			
Batch 3080820 - General Prep - Organics										
Blank (3080820-BLK1)				Prepared: 08-Aug-23 Analyzed: 09-Aug-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*37.2*		mg/kg	*50.0*		*74.4*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.0*		mg/kg	*50.0*		*89.9*	*49.1-148*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:20

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080820 - General Prep - Organics										
LCS (3080820-BS1)				Prepared: 08-Aug-23 Analyzed: 09-Aug-23						
GRO C6-C10	168	10.0	mg/kg	200		84.1	66.4-123			
DRO >C10-C28	176	10.0	mg/kg	200		87.9	66.5-118			
Total TPH C6-C28	344	10.0	mg/kg	400		86.0	77.6-123			
Surrogate: 1-Chlorooctane	*41.6*		mg/kg	*50.0*		*83.1*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*46.2*		mg/kg	*50.0*		*92.5*	*49.1-148*			
LCS Dup (3080820-BSD1)				Prepared: 08-Aug-23 Analyzed: 09-Aug-23						
GRO C6-C10	156	10.0	mg/kg	200		78.2	66.4-123	7.33	17.7	
DRO >C10-C28	161	10.0	mg/kg	200		80.7	66.5-118	8.56	21	
Total TPH C6-C28	318	10.0	mg/kg	400		79.5	77.6-123	7.95	18.5	
Surrogate: 1-Chlorooctane	*38.6*		mg/kg	*50.0*		*77.3*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*42.7*		mg/kg	*50.0*		*85.5*	*49.1-148*			

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Safety & Environmental Solutions Inc
Project Manager: Bob Allen
Address: 703 Clinton
City: Hobbs State: NM Zip: 88240
Phone #: 575 397 0510 Fax #:
Project #: ATK-22-003 Project Owner: ~~Devon~~ *
Project Name: Osopogo Confirmation Samples
Project Location: Osopogo
Sampler Name: Roberto Martinez

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: BTEX; Chlorides; DRO-GRO-MOR 8015

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H234180-1	Ex 2 CS 47	G	1			X					X		8-4	0830
2	" " 48		1											1305
3	" " 49		1											1330
4	" " 50		1											1350
5	" " 51		1										8-4	1415
6	" " 52		1											1110
7	" " 53		1											1135
8	" " 54		1											1150
9	" " 55		1											1210
10	" " 56	G	1			X					X		8-4	1230

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Relinquished By: Roberto Martinez Date: 8-4 Time: 1700 Received By:
Relinquished By: Date: 8/7/23 Time: 1258 Received By: S Rodriguez
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.1i Corrected Temp. °C
Sample Condition Cool Intact: Yes Yes / No No
CHECKED BY: (Initials) SR

Verbal Result: Yes No Add'l Phone #: 5753187299
All Results are emailed. Please provide Email address:
ballen@sesi-nm.com rmartinez@sesi-nm.com
REMARKS:
* Project owner corrected as per Dave. 8/22/23 CH

Turnaround Time: Standard Rush
Thermometer ID #140
Correction Factor 0°C
Bacteria (only) Sample Condition: Cool Yes / No; Intact Yes / No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	ATK-22-003	Project Owner: ~~Devon~~ *	City:
Project Name:	Ogopogo Confirmation Samples		State: Zip:
Project Location:	Ogopogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - MRO 8015
H234180																	
11	~~Ex~~ 2 CS 57	G	1			X					X		8-4	1448	X	X	X
12	Ex 2 CS 58	G	1											1520			
13	Ex 2 CS South Wall 1	G	1											1540			
14	Ex 2 CS South Wall 2	G	1											1555			
15	Ex 2 CS South Wall 3	G	1											1245			
16	Ex 2 CS South Wall 4	G	1			X					X		8-4	1255	X	X	X

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Relinquished By: Roberto Martinez	Date: 8/9/23 Time: 1700	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Relinquished By:	Date: 8/10/23 Time: 1258	Received By: SRodriguez	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.1c #140	Sample Condition Cool: ~~Yes~~ No Intact: ~~Yes~~ No	CHECKED BY: (Initials) SR	REMARKS: rmartinez@sesi-nm.com ballen@sesi-nm.com Standard

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 17, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 14:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 59 (H234370-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/16/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 60 (H234370-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/16/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *132 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 61 (H234370-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *124 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 62 (H234370-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 63 (H234370-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 64 (H234370-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 65 (H234370-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *122 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *137 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 66 (H234370-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *124 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 67 (H234370-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/15/2023	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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Bob Allen
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Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EX 2 CS 68 (H234370-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *121 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 69 (H234370-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 70 (H234370-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 72 (H234370-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *125 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 73 (H234370-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 74 (H234370-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 77 (H234370-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.7	200	0.311	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	182	91.1	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *121 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *135 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 79 (H234370-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	161	80.5	200	4.69	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	156	78.2	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/14/2023	Sampling Date:	08/10/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 80 (H234370-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	1.57	
Toluene*	<0.050	0.050	08/16/2023	ND	2.11	106	2.00	4.72	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.30	105	6.00	6.45	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/15/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	161	80.5	200	4.69	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	156	78.2	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	ATK-22-003	Project Owner:	City:
Project Name:	Oso Pozo Confirmation Sampling		State: Zip:
Project Location:	Oso Pozo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	ANALYSIS REQUEST: BTEX	Cl Lorides	DRO - GRO - mor 8015
H234370																	
1	EX2 CS 59	G				X					X		8-10-23	0800	X	X	X
2	" " 60													0820			
3	" " 61													0845			
4	" " 62													0910			
5	" " 63	G				X					X			0940			
6	" " 64												8/7/23	1060			
7	" " 65													1030			
8	" " 66													1055			
9	" " 67													1120			
10	" " 68	G				X					X		8-10-23	1150	X	X	X

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Relinquished By: Roberto Martinez	Date: 8-14-23 Time: 14:22	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 4.9°	Sample Condition Cool: Yes / Intact: Yes	CHECKED BY: (Initials)

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Ballen@sesi-nm.com
rmartinez@sesi-nm.com
pboyer@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Page 519 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	**BILL TO**	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	ATK-22-0003 Project Owner:	City:	
Project Name:	Oso Poso Confirmation Samplings	State: Zip:	
Project Location:	Oso Poso	Phone #:	
Sampler Name:	Roberto Martinez	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - mor 8015
H234370																	
11	Excavation 2 CS 69	G	1			X					X		8-10-23	1215	X	X	X
12	" " 70		1											1240			
13	" " 72		1											1330			
14	" " 73		1								X			1350			
15	" " 74		1			X								1415			
16	" " 77		1											1455			
17	" " 79		1											1520			
18	" " 80	G	1			X					X		8-10-23	1540	X	X	X
	"																

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Relinquished By: Roberto Martinez	Date: 8-14-23 Time: 1422	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 4.9°	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) TO

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0516
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: bAllen@sesi-nm.com
rmartinez@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 23, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 14:22.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX 2 CS 59	H234370-01	Soil	10-Aug-23 08:00	14-Aug-23 14:22
EX 2 CS 60	H234370-02	Soil	10-Aug-23 08:20	14-Aug-23 14:22
EX 2 CS 61	H234370-03	Soil	10-Aug-23 08:45	14-Aug-23 14:22
EX 2 CS 62	H234370-04	Soil	10-Aug-23 09:10	14-Aug-23 14:22
EX 2 CS 63	H234370-05	Soil	10-Aug-23 09:40	14-Aug-23 14:22
EX 2 CS 64	H234370-06	Soil	10-Aug-23 10:00	14-Aug-23 14:22
EX 2 CS 65	H234370-07	Soil	10-Aug-23 10:30	14-Aug-23 14:22
EX 2 CS 66	H234370-08	Soil	10-Aug-23 10:55	14-Aug-23 14:22
EX 2 CS 67	H234370-09	Soil	10-Aug-23 11:20	14-Aug-23 14:22
EX 2 CS 68	H234370-10	Soil	10-Aug-23 11:50	14-Aug-23 14:22
EXCAVATION 2 CS 69	H234370-11	Soil	10-Aug-23 12:15	14-Aug-23 14:22
EXCAVATION 2 CS 70	H234370-12	Soil	10-Aug-23 12:40	14-Aug-23 14:22
EXCAVATION 2 CS 72	H234370-13	Soil	10-Aug-23 13:30	14-Aug-23 14:22
EXCAVATION 2 CS 73	H234370-14	Soil	10-Aug-23 13:50	14-Aug-23 14:22
EXCAVATION 2 CS 74	H234370-15	Soil	10-Aug-23 14:15	14-Aug-23 14:22
EXCAVATION 2 CS 77	H234370-16	Soil	10-Aug-23 14:55	14-Aug-23 14:22
EXCAVATION 2 CS 79	H234370-17	Soil	10-Aug-23 15:20	14-Aug-23 14:22
EXCAVATION 2 CS 80	H234370-18	Soil	10-Aug-23 15:40	14-Aug-23 14:22

08/23/23 - Client corrected the project owner. This is the revised report and will replace the one sent on 08/17/23.

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 59

H234370-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3081437*	MS	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*115 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*130 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 60

H234370-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081437	MS	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.4 %*	*71.5-134*		*3081437*	MS	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*119 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*132 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 61

H234370-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*114 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*124 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 62

H234370-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*117 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 63

H234370-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*117 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*130 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 64

H234370-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*112 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*126 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 65

H234370-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*122 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*137 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

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EX 2 CS 66

H234370-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*111 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*124 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 67

H234370-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3081525	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*110 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*123 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EX 2 CS 68

H234370-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*110 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*121 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 69

H234370-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*116 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 70

H234370-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*106 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*115 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

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EXCAVATION 2 CS 72

H234370-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*113 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*125 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 73

H234370-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*114 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*126 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 74

H234370-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*115 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 77

H234370-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081502	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*121 %*	*48.2-134*		*3081502*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*135 %*	*49.1-148*		*3081502*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 79

H234370-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*48.2-134*		*3081503*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3081503*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

EXCAVATION 2 CS 80

H234370-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081530	AC	15-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081511	JH	16-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*3081511*	JH	*16-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081503	MS	15-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*48.2-134*		*3081503*	MS	*15-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3081503*	MS	*15-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081525 - 1:4 DI Water										
Blank (3081525-BLK1)				Prepared & Analyzed: 15-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3081525-BS1)				Prepared & Analyzed: 15-Aug-23						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (3081525-BSD1)				Prepared & Analyzed: 15-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20	
Batch 3081530 - 1:4 DI Water										
Blank (3081530-BLK1)				Prepared & Analyzed: 15-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3081530-BS1)				Prepared & Analyzed: 15-Aug-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3081530-BSD1)				Prepared & Analyzed: 15-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081437 - Volatiles										
Blank (3081437-BLK1)				Prepared: 14-Aug-23 Analyzed: 15-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0509*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS (3081437-BS1)				Prepared: 14-Aug-23 Analyzed: 15-Aug-23						
Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	1.94	0.050	mg/kg	2.00		96.9	86-128			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.6	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.4	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.7	86.1-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.8	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0494*		mg/kg	*0.0500*		*98.9*	*71.5-134*			
LCS Dup (3081437-BSD1)				Prepared: 14-Aug-23 Analyzed: 15-Aug-23						
Benzene	1.99	0.050	mg/kg	2.00		99.6	82.8-130	2.21	15.8	
Toluene	1.96	0.050	mg/kg	2.00		98.0	86-128	1.18	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	85.9-128	0.263	16	
m,p-Xylene	4.00	0.100	mg/kg	4.00		99.9	89-129	1.59	16.2	
o-Xylene	1.93	0.050	mg/kg	2.00		96.6	86.1-125	0.0855	16.7	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.8	88.2-128	1.04	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			
Batch 3081511 - Volatiles										
Blank (3081511-BLK1)				Prepared: 15-Aug-23 Analyzed: 16-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081511 - Volatiles										
Blank (3081511-BLK1)				Prepared: 15-Aug-23 Analyzed: 16-Aug-23						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS (3081511-BS1)				Prepared: 15-Aug-23 Analyzed: 16-Aug-23						
Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.11	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.30	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0482*		mg/kg	*0.0500*		*96.5*	*71.5-134*			
LCS Dup (3081511-BSD1)				Prepared: 15-Aug-23 Analyzed: 16-Aug-23						
Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130	1.57	15.8	
Toluene	2.21	0.050	mg/kg	2.00		111	86-128	4.72	15.9	
Ethylbenzene	2.21	0.050	mg/kg	2.00		111	85.9-128	6.94	16	
m,p-Xylene	4.49	0.100	mg/kg	4.00		112	89-129	6.90	16.2	
o-Xylene	2.23	0.050	mg/kg	2.00		112	86.1-125	5.56	16.7	
Total Xylenes	6.72	0.150	mg/kg	6.00		112	88.2-128	6.45	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0508*		mg/kg	*0.0500*		*102*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081502 - General Prep - Organics										
Blank (3081502-BLK1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*41.8*		mg/kg	*50.0*		*83.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*48.4*		mg/kg	*50.0*		*96.8*	*49.1-148*			
LCS (3081502-BS1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	167	10.0	mg/kg	200		83.7	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200		91.1	66.5-118			
Total TPH C6-C28	350	10.0	mg/kg	400		87.4	77.6-123			
Surrogate: 1-Chlorooctane	*46.4*		mg/kg	*50.0*		*92.8*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*56.5*		mg/kg	*50.0*		*113*	*49.1-148*			
LCS Dup (3081502-BSD1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	167	10.0	mg/kg	200		83.4	66.4-123	0.311	17.7	
DRO >C10-C28	187	10.0	mg/kg	200		93.7	66.5-118	2.81	21	
Total TPH C6-C28	354	10.0	mg/kg	400		88.6	77.6-123	1.33	18.5	
Surrogate: 1-Chlorooctane	*44.9*		mg/kg	*50.0*		*89.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*49.1*		mg/kg	*50.0*		*98.1*	*49.1-148*			
Batch 3081503 - General Prep - Organics										
Blank (3081503-BLK1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*36.6*		mg/kg	*50.0*		*73.2*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*39.4*		mg/kg	*50.0*		*78.9*	*49.1-148*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:23

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081503 - General Prep - Organics										
LCS (3081503-BS1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	161	10.0	mg/kg	200		80.5	66.4-123			
DRO >C10-C28	156	10.0	mg/kg	200		78.2	66.5-118			
Total TPH C6-C28	317	10.0	mg/kg	400		79.4	77.6-123			
Surrogate: 1-Chlorooctane	*39.7*		mg/kg	*50.0*		*79.4*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.5*		mg/kg	*50.0*		*91.1*	*49.1-148*			
LCS Dup (3081503-BSD1)				Prepared & Analyzed: 15-Aug-23						
GRO C6-C10	169	10.0	mg/kg	200		84.4	66.4-123	4.69	17.7	
DRO >C10-C28	174	10.0	mg/kg	200		87.1	66.5-118	10.8	21	
Total TPH C6-C28	343	10.0	mg/kg	400		85.7	77.6-123	7.73	18.5	
Surrogate: 1-Chlorooctane	*39.4*		mg/kg	*50.0*		*78.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*45.5*		mg/kg	*50.0*		*91.1*	*49.1-148*			

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	ATK-22-003	Project Owner:	City:
Project Name:	Oso Pozo Confirmation Sampling		State: Zip:
Project Location:	Oso Pozo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	Cl Lorides	DRO - GRO - mor 8015
H234370																	
1	Ex2 CS 59	G				X					X		8-10-23	0800	X	X	X
2	" " 60													0820			
3	" " 61													0845			
4	" " 62													0910			
5	" " 63	G				X					X			0940			
6	" " 64												8/7/23	1060			
7	" " 65													1030			
8	" " 66													1055			
9	" " 67													1120			
10	" " 68	G				X					X		8-10-23	1150	X	X	X

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Relinquished By: Roberto Martinez	Date: 8-14-23 Time: 14:22	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 4.9°	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Ballen@sesi-nm.com
rmartinez@sesi-nm.com
pboyer@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

Page 547 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

		BILL TO	
Company Name:	Safety and Environmental Solutions	P.O. #:	
Project Manager:	Bob Allen	Company:	Same
Address:	703 East Clinton, PO Box 1613	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575 397-0510 Fax #: 575 393-4388	City:	
Project #:	ATK-22-003 Project Owner:	State: Zip:	
Project Name:	Oso Poso Confirmation Samplings	Phone #:	
Project Location:	Oso Poso	Fax #:	
Sampler Name:	Roberto Martinez		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - mor 8015
H234370																	
11	Exploration 2 CS 69	G	1			X					X		8-10-23	1215	X	X	X
12	" " 70		1											1240			
13	" " 72		1											1330			
14	" " 73		1								X			1350			
15	" " 74		1			X								1415			
16	" " 77		1											1455			
17	" " 79		1											1520			
18	" " 80	G	1			X					X		8-10-23	1540	X	X	X
	"																

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Relinquished By: Roberto Martinez	Date: 8-14-23 Time: 1422	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 4.9°	Sample Condition: Cool Yes / No; Intact Yes / No	CHECKED BY: (Initials) TO

Phone Result:	☒ Yes ☐ No	Add'l Phone #:	575 397 0516
Fax Result:	☐ Yes ☐ No	Add'l Fax #:	
REMARKS:	bAllen@sesi-nm.com rmartinez@sesi-nm.com		

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 22, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/16/23 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS NW5 (H234438-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	1.98	98.8	2.00	1.40	
Toluene*	<0.050	0.050	08/17/2023	ND	1.90	94.8	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.97	98.6	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.88	98.0	6.00	2.99	
Total BTEX	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *79.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS NW7 (H234438-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	1.98	98.8	2.00	1.40	
Toluene*	<0.050	0.050	08/17/2023	ND	1.90	94.8	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.97	98.6	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.88	98.0	6.00	2.99	
Total BTEX	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *79.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.1 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS NW8 (H234438-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	1.98	98.8	2.00	1.40	
Toluene*	<0.050	0.050	08/17/2023	ND	1.90	94.8	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.97	98.6	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.88	98.0	6.00	2.99	
Total BTEX	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *81.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 100 (H234438-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2023	ND	2.10	105	2.00	0.136	
Toluene*	<0.050	0.050	08/18/2023	ND	2.18	109	2.00	3.95	
Ethylbenzene*	<0.050	0.050	08/18/2023	ND	2.21	111	2.00	4.58	
Total Xylenes*	<0.150	0.150	08/18/2023	ND	6.71	112	6.00	3.94	
Total BTEX	<0.300	0.300	08/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *81.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 101 (H234438-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2023	ND	2.10	105	2.00	0.136	
Toluene*	<0.050	0.050	08/18/2023	ND	2.18	109	2.00	3.95	
Ethylbenzene*	<0.050	0.050	08/18/2023	ND	2.21	111	2.00	4.58	
Total Xylenes*	<0.150	0.150	08/18/2023	ND	6.71	112	6.00	3.94	
Total BTEX	<0.300	0.300	08/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *82.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/16/2023	Sampling Date:	08/15/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: EXCAVATION 2 CS 103 (H234438-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2023	ND	2.10	105	2.00	0.136	
Toluene*	<0.050	0.050	08/18/2023	ND	2.18	109	2.00	3.95	
Ethylbenzene*	<0.050	0.050	08/18/2023	ND	2.21	111	2.00	4.58	
Total Xylenes*	<0.150	0.150	08/18/2023	ND	6.71	112	6.00	3.94	
Total BTEX	<0.300	0.300	08/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	198	99.1	200	1.27	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	208	104	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane *81.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.5 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 556 of 624

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	Atk-22-003	Project Owner:	City:
Project Name:	Ogo Pogo Confirmation Samplings		State: Zip:
Project Location:	Oso Pogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Chlorides	DRO - GRO - MOR 8015														
H234438																														
1	Excavation 2 CS NW 5	G	1			X					X		8-15-23	1100	X	X	X													
2	" " NW 7		1											1145																
3	" " NW 8		1											1215																
4	" " 100		1											1300																
5	" " 101		1											1345	X	X	X													
6	" " 103	X	1			X					X		8-15-23	1400	X	X	X													

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Relinquished By:	Date: 8/16/23	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
	Time: 16:00		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: ballen@sesi-nm.com rmartinez@sesi-nm.com
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 3.8°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 23, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/16/23 16:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EXCAVATION 2 CS NW5	H234438-01	Soil	15-Aug-23 11:00	16-Aug-23 16:00
EXCAVATION 2 CS NW7	H234438-02	Soil	15-Aug-23 11:45	16-Aug-23 16:00
EXCAVATION 2 CS NW8	H234438-03	Soil	15-Aug-23 12:15	16-Aug-23 16:00
EXCAVATION 2 CS 100	H234438-04	Soil	15-Aug-23 13:00	16-Aug-23 16:00
EXCAVATION 2 CS 101	H234438-05	Soil	15-Aug-23 13:45	16-Aug-23 16:00
EXCAVATION 2 CS 103	H234438-06	Soil	15-Aug-23 14:00	16-Aug-23 16:00

08/23/23 - Client corrected the project owner. This is the revised report and will replace the one sent on 08/22/23.

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS NW5

H234438-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*3081703*	JH/	*17-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*79.2 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.3 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS NW7

H234438-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*113 %*	*71.5-134*		*3081703*	JH/	*17-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*79.0 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*83.1 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS NW8

H234438-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081703	JH/	17-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*3081703*	JH/	*17-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*81.3 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*83.9 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS 100

H234438-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3081704*	JH	*18-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*81.2 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.9 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS 101

H234438-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3081704*	JH	*18-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*82.8 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.0 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

EXCAVATION 2 CS 103

H234438-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3081718	AC	17-Aug-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3081704	JH	18-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*3081704*	JH	*18-Aug-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3081710	MS	17-Aug-23	8015B	
Surrogate: 1-Chlorooctane			*81.9 %*	*48.2-134*		*3081710*	MS	*17-Aug-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.5 %*	*49.1-148*		*3081710*	MS	*17-Aug-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081718 - 1:4 DI Water										
Blank (3081718-BLK1)				Prepared & Analyzed: 17-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3081718-BS1)				Prepared & Analyzed: 17-Aug-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3081718-BSD1)				Prepared & Analyzed: 17-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081703 - Volatiles										
Blank (3081703-BLK1)				Prepared & Analyzed: 17-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0578*		mg/kg	*0.0500*		*116*	*71.5-134*			
LCS (3081703-BS1)				Prepared & Analyzed: 17-Aug-23						
Benzene	1.98	0.050	mg/kg	2.00		98.8	82.8-130			
Toluene	1.90	0.050	mg/kg	2.00		94.8	86-128			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	86.1-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0527*		mg/kg	*0.0500*		*105*	*71.5-134*			
LCS Dup (3081703-BSD1)				Prepared & Analyzed: 17-Aug-23						
Benzene	1.95	0.050	mg/kg	2.00		97.5	82.8-130	1.40	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.3	86-128	1.60	15.9	
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	85.9-128	1.57	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.5	89-129	2.38	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		92.2	86.1-125	4.27	16.7	
Total Xylenes	5.70	0.150	mg/kg	6.00		95.1	88.2-128	2.99	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0523*		mg/kg	*0.0500*		*105*	*71.5-134*			
Batch 3081704 - Volatiles										
Blank (3081704-BLK1)				Prepared: 17-Aug-23 Analyzed: 18-Aug-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081704 - Volatiles										
Blank (3081704-BLK1)				Prepared: 17-Aug-23 Analyzed: 18-Aug-23						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0524*		mg/kg	*0.0500*		*105*	*71.5-134*			
LCS (3081704-BS1)				Prepared: 17-Aug-23 Analyzed: 18-Aug-23						
Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.18	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.21	0.050	mg/kg	2.00		111	85.9-128			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	89-129			
o-Xylene	2.26	0.050	mg/kg	2.00		113	86.1-125			
Total Xylenes	6.71	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS Dup (3081704-BSD1)				Prepared: 17-Aug-23 Analyzed: 18-Aug-23						
Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130	0.136	15.8	
Toluene	2.27	0.050	mg/kg	2.00		113	86-128	3.95	15.9	
Ethylbenzene	2.32	0.050	mg/kg	2.00		116	85.9-128	4.58	16	
m,p-Xylene	4.64	0.100	mg/kg	4.00		116	89-129	4.19	16.2	
o-Xylene	2.34	0.050	mg/kg	2.00		117	86.1-125	3.45	16.7	
Total Xylenes	6.98	0.150	mg/kg	6.00		116	88.2-128	3.94	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0527*		mg/kg	*0.0500*		*105*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: OGO POGO CONFIRMATION SAMP Project Number: ATK - 22 - 003 Project Manager: Bob Allen Fax To: (575) 393-4388	Reported: 23-Aug-23 15:29

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3081710 - General Prep - Organics										
Blank (3081710-BLK1)				Prepared & Analyzed: 17-Aug-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*42.1*		mg/kg	*50.0*		*84.2*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*43.5*		mg/kg	*50.0*		*87.0*	*49.1-148*			
LCS (3081710-BS1)				Prepared & Analyzed: 17-Aug-23						
GRO C6-C10	198	10.0	mg/kg	200		99.1	66.4-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	*43.0*		mg/kg	*50.0*		*86.1*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*42.3*		mg/kg	*50.0*		*84.7*	*49.1-148*			
LCS Dup (3081710-BSD1)				Prepared & Analyzed: 17-Aug-23						
GRO C6-C10	201	10.0	mg/kg	200		100	66.4-123	1.27	17.7	
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118	4.35	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	2.86	18.5	
Surrogate: 1-Chlorooctane	*47.4*		mg/kg	*50.0*		*94.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*48.1*		mg/kg	*50.0*		*96.1*	*49.1-148*			

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	AHK-22-003	Project Owner:	City:
Project Name:	Ogo Pogo Confirmation Samplings		State: Zip:
Project Location:	Oso Pogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - MOR 8015
H234438																	
1	Excavation 2 CS NW 5	G	1			X					X		8-15-23	1100	X	X	X
2	" " NW 7		1											1145			
3	" " NW 8		1											1215			
4	" " 100		1											1300			
5	" " 101		1											1345	X	X	X
6	" " 103	X	1			X					X		8-15-23	1400	X	X	X

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Relinquished By:	Date: 8/16/23	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
	Time: 10:00		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: ballen@sesi-nm.com rmartinez@sesi-nm.com
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 3.8°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 23, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/17/23 12:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS NW 5 (H234467-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	1.95	97.4	2.00	1.63	
Toluene*	<0.050	0.050	08/19/2023	ND	1.88	94.0	2.00	1.88	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	1.95	97.5	2.00	1.21	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	5.79	96.4	6.00	1.26	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS NW 7 (H234467-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	1.95	97.4	2.00	1.63	
Toluene*	<0.050	0.050	08/19/2023	ND	1.88	94.0	2.00	1.88	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	1.95	97.5	2.00	1.21	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	5.79	96.4	6.00	1.26	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.5 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS NW 8 (H234467-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	1.95	97.4	2.00	1.63	
Toluene*	<0.050	0.050	08/19/2023	ND	1.88	94.0	2.00	1.88	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	1.95	97.5	2.00	1.21	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	5.79	96.4	6.00	1.26	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS EW 4 (H234467-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *97.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.4 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS EW 7 (H234467-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *95.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.3 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 88 (H234467-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS EW 5 (H234467-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *93.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.9 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 107 (H234467-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *89.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.6 %* *49.1-148*

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Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 106 (H234467-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *95.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 105 (H234467-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	191	95.7	200	8.29	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	195	97.3	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *90.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.8 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 104 (H234467-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	214	107	200	9.30	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	242	121	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 109 (H234467-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	214	107	200	9.30	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	242	121	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS 108 (H234467-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	214	107	200	9.30	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	242	121	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *131 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/23/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EX 2 CS EW 8 (H234467-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2023	ND	2.06	103	2.00	1.72	
Toluene*	<0.050	0.050	08/19/2023	ND	1.99	99.3	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/19/2023	ND	2.01	100	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/19/2023	ND	6.02	100	6.00	1.18	
Total BTEX	<0.300	0.300	08/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	08/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2023	ND	214	107	200	9.30	
DRO >C10-C28*	<10.0	10.0	08/18/2023	ND	242	121	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 587 of 624

CARDINAL Laboratories

#1052

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	Atk-22-003	Project Owner:	City:
Project Name:	Ogo Pogo Confirmation Samplings		State: Zip:
Project Location:	Oso Pogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	DRO - GRO - MOR 8015
H23[illegible]467																	
1	Ex 2 CS NW 5	G	1			X					X		8-16-23	1015	X	X	X
2	" " NW 7		1											1050			
3	" " NW 8		1											1045			
4	" " EW 4		1											1200			
5	" " EW 7		1											1220	X	X	X
6	" " 88	X	1			X					X			1235			
7	" " EW 5		1											1330			
8	" " 107		1											1400			
9	106 ~~MW 106~~		1											1415			
10	" " 105	G	1			X					X		8-16-23	1420	X	X	X

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Relinquished By:	Date: 8/17/23	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 397 0510
Relinquished By:	Time: 1240	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Date:		REMARKS: ballen@sesi-nm.com rmartinez@sesi-nm.com
	Time:		

Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: 2.2c

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

#252

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575 397-0510	Fax #: 575 393-4388	Address:
Project #:	Atk-22-003	Project Owner:	City:
Project Name:	Ogo Pogo Confirmation Samplings		State: Zip:
Project Location:	Oso Pogo		Phone #:
Sampler Name:	Roberto Martinez		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Chlorides	DRO - GRO - MOR 8015	
H234467																		
11	Excavation 2 CS 101	G	1			X					X		8-16-23	1500	X	X	X	
12	" " 109		1											1520				
13	" " 108		1											1540				
14	" " EW8	X	1			X					X		8-16-23	1550	X	X	X	

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Relinquished By:	Date: 8/17/23	Received By:	Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 551 0510
	Time: 1240		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: balken @ sesi-nm.com rmartinez@sesi-nm.com
	Time:		

Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: 2.2°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 24, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/18/23 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS SW 5 (H234499-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *97.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS SW 6 (H234499-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *97.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

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Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS SW 7 (H234499-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *99.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS SW 8 (H234499-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS SW 9 (H234499-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *74.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.6 %* *49.1-148*

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Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS NW 9 (H234499-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *89.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

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Analytical Results For:

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703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS NW 10 (H234499-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *97.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

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703 East Clinton
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Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS NW 11 (H234499-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *93.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

		BILL TO	
Company Name:	Safety and Environmental Solutions	P.O. #:	
Project Manager:	Bob Allen	Company:	Same
Address:	703 East Clinton, PO Box 1613	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575 397-0510 Fax #: 575 393-4388	City:	
Project #:	Atk-22-003 Project Owner:	State:	Zip:
Project Name:	Ogo Pogo Confirmation Samplings	Phone #:	
Project Location:	Oso Pogo	Fax #:	
Sampler Name:	Roberto Martinez		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Chlorides	DRO - GRO - MOR 8015
H234499																	
1	Excavation 2 CS SW5	G	1			X					X		8-17-23	1100	X	X	X
2	" SW6		1											1120			
3	" SW7		1											1155			
4	" SW8		1											1220	X	X	X
5	" SW9		1										8-17-23	1245			
6	" NW9	X	1			X					X			1330			
7	" NW10		1											1345			
8	" NW11	X	1			X					X		8-17-23	1400	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8/17/23 Time: 1630	Received By:	
Relinquished By:	Date: 8/18/23 Time: 15:45	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.2° H140	Sample Condition Cool: Yes / No; Intact: Yes / No	CHECKED BY: (Initials)

Phone Result: Yes No Add'l Phone #: 575 397 0510
Fax Result: Yes No Add'l Fax #:
REMARKS: ballen@sesi-nm.com
rmartinez@sesi-nm.com

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 24, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OGO POGO CONFIRMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/18/23 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS 54 (H234500-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.92	96.2	2.00	1.88	
Toluene*	<0.050	0.050	08/23/2023	ND	2.02	101	2.00	7.82	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.98	99.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.08	101	6.00	9.49	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *92.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS 97 (H234500-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.89	94.7	2.00	4.36	
Toluene*	<0.050	0.050	08/23/2023	ND	1.90	94.8	2.00	4.88	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.94	96.8	2.00	5.67	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	5.85	97.5	6.00	4.94	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *96.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS 98 (H234500-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.89	94.7	2.00	4.36	
Toluene*	<0.050	0.050	08/23/2023	ND	1.90	94.8	2.00	4.88	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.94	96.8	2.00	5.67	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	5.85	97.5	6.00	4.94	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *98.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS 99 (H234500-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.89	94.7	2.00	4.36	
Toluene*	<0.050	0.050	08/23/2023	ND	1.90	94.8	2.00	4.88	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.94	96.8	2.00	5.67	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	5.85	97.5	6.00	4.94	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *98.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2023	Sampling Date:	08/17/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	OGO POGO CONFIRMATION SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 003	Sample Received By:	Tamara Oldaker
Project Location:	OGO POGO		

Sample ID: EXCAVATION 2 CS 102 (H234500-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	1.89	94.7	2.00	4.36	
Toluene*	<0.050	0.050	08/23/2023	ND	1.90	94.8	2.00	4.88	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	1.94	96.8	2.00	5.67	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	5.85	97.5	6.00	4.94	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	08/22/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	189	94.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	178	89.2	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane *95.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton, PO Box 1613	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	575 397-0510 Fax #: 575 393-4388	Address:	
Project #:	AHK-22-003 Project Owner:	City:	
Project Name:	Ogo Pogo Confirmation Samplings	State: Zip:	
Project Location:	Oso Pogo	Phone #:	
Sampler Name:	Roberto Martinez	Fax #:	

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Chlorides	DRO - GRO - MOR 8015												
H234500	Excavation 2 CS 54																											
1	4	G	1			X					X		8-17-23	0880	X	X	X											
2	4		1											0845														
3	4		1											0900														
4	4		1											0930														
5	4		1											1000														
6	4		1											1030														
7	4		1											1100														
8	4		1											1130														
9	4		1											1200														
10	4		1											1230														

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8/17/23 Time: 1450	Received By:			
Relinquished By:	Date: 8/18/23 Time: 13:15	Received By:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 4.2°	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)		

Phone Result:	Yes / No	Add'l Phone #:	575 397 0510
Fax Result:	Yes / No	Add'l Fax #:	
REMARKS:	balken @ ses1-nm .com rmartinez @ ses1-nm .com		

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

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

August 31, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DAGGER LAKE ZEUS POND

Enclosed are the results of analyses for samples received by the laboratory on 08/31/23 11:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/31/2023	Sampling Date:	08/30/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	DAGGER LAKE ZEUS POND	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 001	Sample Received By:	Tamara Oldaker
Project Location:	ATKINS - ZEUS SWD		

Sample ID: DP 1 - 1FT (H234733-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 1 - 2FT (H234733-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1680**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 1 - 4FT (H234733-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 1 - 6FT (H234733-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/31/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/31/2023	Sampling Date:	08/30/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	DAGGER LAKE ZEUS POND	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 001	Sample Received By:	Tamara Oldaker
Project Location:	ATKINS - ZEUS SWD		

Sample ID: DP 2 - SURFACE (H234733-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 2 - 4FT (H234733-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 3 - 4FT (H234733-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1880**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 3 - 6FT (H234733-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 3 - 8FT (H234733-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/31/2023	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/31/2023	Sampling Date:	08/30/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	DAGGER LAKE ZEUS POND	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 001	Sample Received By:	Tamara Oldaker
Project Location:	ATKINS - ZEUS SWD		

Sample ID: DP 3 - 9FT (H234733-10)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 4 - 6FT (H234733-11)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 4 - 8FT (H234733-12)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 5 - 6FT (H234733-13)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 5 - 8FT (H234733-14)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/31/2023	ND	400	100	400	3.92	

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/31/2023	Sampling Date:	08/30/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	DAGGER LAKE ZEUS POND	Sampling Condition:	Cool & Intact
Project Number:	ATK - 22 - 001	Sample Received By:	Tamara Oldaker
Project Location:	ATKINS - ZEUS SWD		

Sample ID: DP 6 - 8FT (H234733-15)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3600**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 6 - 10FT (H234733-16)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 6 - 12FT (H234733-17)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	08/31/2023	ND	400	100	400	3.92	

Sample ID: DP 6 - 14FT (H234733-18)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/31/2023	ND	368	92.0	400	16.0	

Sample ID: DP 6 - 16FT (H234733-19)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/31/2023	ND	368	92.0	400	16.0	

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions
Project Manager:	Bob Allen
Address:	703 East Clinton, PO Box 1613
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397-0510 Fax #: 575 393-4388
Project #:	ATK-22-001 Project Owner: Atkins
Project Name:	Dagger Lake Zeus Pond
Project Location:	Zeus SWD
Sampler Name:	Haden Able

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY: H234733

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
1	DP1 - 1ft	G				X					X		8-30	1120	X
2	DP1 - 2ft													1040	
3	DP1 - 4ft													1050	
4	DP1 - 6ft													1055	
5	DP2 - Surface					X					X		8-30	1130	X
6	DP2 - 4ft	G												1115	
7	DP3 - 4ft													1155	
8	DP3 - 6ft													1200	
9	DP3 8ft													1200	
10	DP3 9ft	G				X					X		8-30	1220	X

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Relinquished By: Hayden Able	Date: 8-31-23	Received By:	
	Time: 1100		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: #140 2.1°c

Sample Condition: Cool: Yes / No; Intact: Yes / No

CHECKED BY: (Initials)

Phone Result: Yes / No Add'l Phone #: 575 557 0510
Fax Result: Yes / No Add'l Fax #:

REMARKS:
ballen@sesi-nm.com
hable@sesi-nm.com

Rush Order

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety and Environmental Solutions
Project Manager:	Bob Allen
Address:	703 East Clinton, PO Box 1613
City:	Hobbs State: NM Zip: 88240
Phone #:	575 397-0510 Fax #: 575 393-4388
Project #:	ATK-22-001 Project Owner: Atkins
Project Name:	Dagger Lake Zeus Pond
Project Location:	
Sampler Name:	

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY: H034733

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
11	DP4-6ft	G				X					X		8-30-23	1245	X
12	DP4-8ft					X					X			1245	
13	DP5-6ft					X					X			1440	
14	DP5-8ft					X					X			1400	
15	DP6-8ft	G				X					X		8-30-23	1445	X
16	DP6-10ft					X					X			1500	
17	DP6-12ft					X					X			1516	
	DP6-14ft					X					X			1535	
	DP6-16ft	G				X					X		8-30-23	1515	X

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Relinquished By:	Date: 8-31-23	Received By:	
Hayden Able	Time: 1100		
Relinquished By:	Date:	Received By:	
	Time:		
Delivered By: (Circle One)			
Sampler - UPS - Bus - Other:	2.1°C	#140	

Sample Condition: Cool: Yes / No; Intact: Yes / No

CHECKED BY: (Initials)

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575 3970510
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:
ballen@sesi-nm.com
hable@sesi-nm.com

Rush order

Received by OCD: 2/12/2025 11:05:06 AM

Released to Imaging: 2/12/2025 2:05:22 PM

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Phone: (505) 476-3441

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2229333460**
Incident Name	**NAPP2229333460 DL 10 15 OGOPOGO FEDERAL COM #422H @ 30-025-49906**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-49906] DL 10 15 OGOPOGO FEDERAL COM #422H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DL 10 15 OGOPOGO FEDERAL COM #422H
Date Release Discovered	10/16/2022
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Water Tank | Produced Water | Released: 30 BBL | Recovered: 27 BBL | Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/12/2025

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5420
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	55
GRO+DRO (EPA SW-846 Method 8015M)	171
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/10/2024
On what date will (or did) the final sampling or liner inspection occur	12/20/2024
On what date will (or was) the remediation complete(d)	01/23/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	4240
What is the estimated volume (in cubic yards) that will be remediated	540
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/12/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**417032**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/06/2025**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**3100**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4240
What was the total volume (cubic yards) remediated	540
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	"Area was excavated and remediated based off of initial site assessment results. Once composite confirmation sidewall and floor samples were received, the area was backfilled with caliche and will be reclaimed/reseeded during P/A activities."

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/12/2025

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 428564
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved.	2/12/2025