



COG (ConocoPhillips)

2024 Remediation Summary and Soil Deferral Request Report

Columbus Fee 23 & 24 Tank Battery

Incident # NAPP2409554213

Lea County, New Mexico

January 2025

2024 Soil Deferral Request Report

2024 Remediation Summary and Soil Deferral Request Report

Columbus Fee 23 & 24 Tank Battery

Incident # NAPP2409554213

Lea County, New Mexico

January 2025

Prepared By:

Arcadis U.S., Inc.

1330 Post Oak Blvd., Suite 2250

Houston

Texas 77056

Phone: 713 953 4800

Prepared For:

Ike Tavaréz

Project Manager

ConocoPhillips RM&R

600 W. Illinois Ave.

Midland, TX 79701

Our Ref:

30248450



Justin Nixon

Task Manager



Scott Foord, PG

Certified Project Manager

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

www.arcadis.com

Columbus Fee 23-24 Soil deferral Report_jn_sf_jn

2024 Soil Deferral Request Report

Contents

1	Introduction	1
2	Project Summary	1
2.1	Incident # NAPP2409554213	1
3	Site Characterization	1
4	Closure Criteria for Soils Impacted by a Release	2
5	Remediation/Reclamation Activities Summary	3
5.1	Soil Removal	3
5.2	Excavation Confirmation Sampling Activities	3
5.3	Chloride	4
5.4	TPH	4
5.5	BTEX	4
6	Restoration, Reclamation, and Re-Vegetation Plan	4
7	Summary	4
8	Deferral Request	5

Tables

Table 1.	2024 Soil Analytical Results
Table 2.	2024 Soil Assessment Analytical Results

Figures

Figure 1.	Site Location Map
Figure 2.	Topographic Map
Figure 3.	Depth to Groundwater Map
Figure 4.	Excavation Base Soil Sample Locations and Deferral Map
Figure 5.	Excavation Sidewall Soil Sample Locations Map

Photographic Logs

Log 1.	2024 Soil Remediation Photographic Log
--------	--

2024 Soil Deferral Request Report

Appendices

Appendix A. Initial C-141 Form Incident # NAPP2409554213

Appendix B. Site Characterization

Appendix C. Work Plan

Appendix D. Laboratory Analytical Reports

2024 Soil Deferral Request Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Deferral Request Report (Report), on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Columbus Fee 23 & 24 Tank Battery (Site). Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on private land approximately 28-miles southwest of the City of Jal in Unit B, Section 34, Township 25 South, Range 33 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAPP2409554213

According to the Initial C-141 Form, on April 4, 2024, a hole in the water transfer line was found resulting in the release of approximately 110.6090 barrels (bbls) of produced water to ground surface at the Site with 75 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on April 4, 2024 and assigned Incident ID number NAPP2409554213. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

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: > 5 miles
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark): Between ½ and 1 mile
- An occupied permanent residence, school, hospital, institution, or church: > 5 miles
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 500 ft and 1/2 mile
- Any other fresh water well or spring: Between 500 ft and 1/2 mile
- Incorporated municipal boundaries or a defined municipal fresh water well field: > 5 miles
- A wetland: Between 1/2 and 1 mile
- A subsurface mine: > 5 miles
- A (non-karst) unstable area: > 5 miles
- Categorize the risk of this well/site being in Karst Geology: Low
- A 100-year floodplain: > 5 miles
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

Site characterization information can be found in **Appendix B**.

Soil assessment activities were performed at the Site in June 2024 by Carmona resources, LLC (CRLLC) to determine the horizontal and vertical extent of the release area.

2024 Soil Deferral Request Report

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. There's a registered water well 0.56 miles northeast of the site with a reported depth of 110' below ground surface (bgs). A windmill is located approximately 0.5 miles northeast of the site. During inspection the windmill was inactive and had access to the well to collect a static water level. Once measured, the windmill had a depth of 135 feet below ground surface (bgs). The windmill location was used in a 2021 closure report approved by the NMOCD from a previous release at the site with incident number NRM2020456890. The windmill location can be found in in **Figure 3**.

The assessment activities associated analytical soil sample results, the groundwater determination boring, and the initial proposed remediation/reclamation activities for the impacted areas are detailed in the 2023 Work Plan submitted previously by Arcadis to the NMOCD (see **Appendix C**).

Arcadis began excavation activities at the Site in November 2024. Chloride concentrations in soil were determined during excavation activities to be below the applicable screening limit of 20,000 milligrams per kilogram (mg/Kg) for chloride at depths of approximately 4 feet bgs within the pasture area located south of the pad.

4 Closure Criteria for Soils Impacted by a Release

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

Constituent	Limit (mg/Kg)
Benzene	10 mg/Kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/Kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/Kg
Chloride	600 mg/Kg

The NMOCD classifies the Site to use the least stringent remediation regulatory limits for soils at depths greater than 4 feet bgs due to depth to groundwater being confirmed greater than 100 feet bgs, and no additional conditions or stipulations are applicable to the Site. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria apply to the Site:

2024 Soil Deferral Request Report

Constituent	Limit (mg/Kg)
Chloride	20,000 mg/Kg
TPH – GRO, DRO and ORO	2,500 mg/Kg
TPH – GRO and DRO	1,000 mg/Kg
BTEX	50 mg/Kg
Benzene	10 mg/Kg

5 Remediation/Reclamation Activities Summary

5.1 Soil Removal

Prior to any intrusive activities, a NM One Call notification and a private utility locate (ground penetrating radar) were conducted to clear the area and identify underground utilities.

Soil remediation activities were performed by Arcadis and Standard Safety Environmental (Standard) from November 19 through December 4, 2024. Photo-ionization detector (PID) readings, chloride field screening with Hach field test strip results, and laboratory analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the lateral and vertical extent of soil impacted by the release. Lateral and vertical delineation of the impacted soil requiring removal was based on samples collected from the perimeter and bottom of the release area. Based on these results, it was determined that the release covered an approximately 4,217 square foot (sq ft) area south of the tank battery adjacent to the pad and east to west on the pad. Soil analytical results are discussed in **Sections 5.3, 5.4, and 5.5**.

Excavation activities were conducted to a maximum depth of approximately 4 feet bgs in the pasture areas and pad area. General housekeeping to the extent possible without risking human health and safety or performing major deconstruction of the active facility was performed for all pad locations. Approximately 560 cubic yards of impacted soil were excavated from the release area. The limits of the excavation are presented on **Figure 4**. Excavated soil was stockpiled on-site, adjacent to the release area on 20 millimeter (mil) thick plastic sheeting and covered with 20 mil plastic sheeting during remediation activities.

The stockpiled soil was disposed offsite at the R360 Antelope Draw Landfill facility located on Battle Axe Rd., in Jal, New Mexico as Class 2 non-hazardous material. Standard transported a total of 27 truckloads of soil directly to the landfill on November 25 through December 5, 2024. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Photographic Log**.

5.2 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on November 22 through December 4, 2024 for laboratory analyses. Following excavation of the impacted area, confirmation soil samples were collected from the sidewalls and bottom of the excavation as needed to maintain an approximate 400 square foot sample spacing or less for both sidewalls and base of the excavated area as approved in the work plan submitted to the NMOCD. Sidewall confirmation sample locations are depicted in **Figure 4** and excavation base confirmation samples are depicted in **Figure 5**.

2024 Soil Deferral Request Report

The soil confirmation soil samples were collected in 4-oz jars provided by Eurofins Xenco Analytical Laboratory (Eurofins) located in Midland, Texas, then placed on ice and shipped to Eurofins for analysis of chloride by United States Environmental Protection Agency (USEPA) Method 300; TPH by Method 8015 M for GRO, DRO, and ORO; and BTEX by USEPA Methods 8015/8021. Analytical results are shown in **Table 1**. Laboratory analytical reports are included in **Appendix D**.

5.3 Chloride

All sidewall soil samples collected within the top 4 feet of soil within the pasture areas were below the NMOCD reclamation limit of 600 mg/Kg. SW-1 and SW-4 within the pad exceeded reclamation standards. All soil samples collected within the excavated areas at 4 feet bgs were below the NMAC closure criteria of 20,000 mg/Kg.

5.4 TPH

TPH concentrations were reported below the NMOCD reclamation limit of 100 mg/Kg at all sample locations for GRO, DRO, and ORO in all soil samples collected within the excavated areas at depths less than 4 feet bgs.

TPH concentrations were reported below the NMAC screening standard of 2,500 mg/Kg at all sample locations for GRO, DRO, and ORO and below 1,000 mg/kg for GRO and DRO combined in all soil samples collected at depths greater than 4 feet bgs or on the pad locations.

5.5 BTEX

Benzene concentrations were reported below the NMAC standard of 10 mg/Kg at all sample locations. BTEX concentrations were reported below the NMAC standard of 50 mg/Kg at all sample locations.

6 Restoration, Reclamation, and Re-Vegetation Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits within the pasture had been removed, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas were located on the production pad and surrounding pasture areas south of the pad. Excavated areas within the pasture area were topped with a topsoil similar to native the surrounding pasture material. The off pad disturbed areas will be reseeded during the first favorable growing season following accordance with NMAC part 19.15.29.13 with a BLM approved seed mixture.

7 Summary

Analytical results associated with recent remediation activities conducted in 2024 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC screening standards for a site with depth the groundwater greater than 100 feet bgs have been delineated both horizontally and vertically and excavated within all accessible areas.

2024 Soil Deferral Request Report

8 Deferral Request

Remediation activities were conducted in accordance with the NMOCD standards outlined in Table I of NMAC part 19.15.29.12 utilizing 400 square foot sampling composite areas as approved in the Work Plan Variance. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated from accessible areas and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX and TPH are below the NMOCD Closure Criteria in each of the submitted soil samples for all remediated areas at the Site. Impacted soil currently remains in-situ above the NMOCD reclamation limit of 600 mg/Kg for chloride within the inaccessible area for sidewalls SW-1 and SW-4. The inaccessible locations are adjacent to and underneath the steel containment, and steel and poly flowlines within the tank battery area and the pad.

Analytical results for soil samples collected indicate that chloride impact to soil is confined to surface and shallow soil only within the release area. The remaining in-situ impacted area is fully delineated and further excavation would pose a safety risk and require major facility deconstruction. Leaving the remaining impacted soil in-situ is not believed a risk to human health, the environment, or ground water. Soil sample locations and analytical data collected during horizontal and vertical delineation activities is presented in **Figure 4** for all locations. Soil sample analytical data is summarized in **Table 2**.

A request for deferral of additional remediation of in-situ soil impacts measuring approximately 240 feet by 5 feet within the pad area north of SW-1 to SW-4, totaling approximately 1,200 sq ft is requested at this time. This area will be remediated during site restoration activities that will be conducted following abandonment of this facility at a future date in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC. The areas detailed above associated with the deferral request will be remediated to NMOCD reclamation standards following completion of facility abandonment activities. An Excavation Sidewall Soil Sample Locations and Deferral Map is depicted in **Figure 3**.

Based upon the findings presented in this report, no additional soil assessment activities are recommended at this time to further delineate the BTEX, TPH, and chloride impacts in soil at the Site. As such, Arcadis, on behalf of ConocoPhillips, respectfully requests deferral of Incident number NAPP2409554213 until the facility is abandoned and site reclamation activities are conducted.

Tables

Table 1
2024 Soil Analytical Results
Columbus Fee 23-24 SWD
Lea County, New Mexico
COG (ConocoPhillips)

Sample ID	Date	Soil Status	Depth (ft)	BTEX Methods					TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
B-1-S-4'-112024	11/20/2024	In Situ	4	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	729
B-2-S-4'-112024	11/20/2024	In Situ	4	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	757
B-3-S-4'-112024	11/20/2024	In Situ	4	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	332
B-4-S-4'-112024	11/20/2024	In Situ	4	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	865
B-5-S-4'-112624	11/26/2024	In Situ	4	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	2,950
B-6-S-4'-112624	11/26/2024	In Situ	4	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	2,450
B-7-S-4'-112624	11/26/2024	In Situ	4	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	129
B-8-S-4'-112624	11/26/2024	In Situ	4	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	107
B-9-S-4'-112624	11/26/2024	In Situ	4	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	211
B-10-S-4'-112624	11/26/2024	In Situ	4	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	1,180
B-11-S-4'-112624	11/26/2024	In Situ	4	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	106
B-12-S-4'-112624	11/26/2024	In Situ	4	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	91.7
B-13-S-4'-112624	11/26/2024	In Situ	4	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	3,960
B-14-S-4'-112624	11/26/2024	In Situ	4	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	220
B-15-S-4'-112624	11/26/2024	In Situ	4	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	1,270
B-16-S-4'-112624	11/26/2024	In Situ	4	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	126
SW-1-S-2'-112024	11/20/2024	In Situ	2	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	2,640
SW-2-S-2'-112624	11/26/2024	In Situ	2	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	117
SW-3-S-2'-112024	11/20/2024	Removed	2	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	4,000
SW-3A-S-2'-120424	12/4/2024	In Situ	2	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	141
SW-4-S-2'-112024	11/20/2024	In Situ	2	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	6,900
SW-5-S-2'-112024	11/20/2024	Removed	2	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	1,660
SW-5A-S-2'-120424	12/4/2024	In Situ	2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.8	<49.8	<49.8	<49.8	87
SW-6-S-2'-112624	11/26/2024	In Situ	2	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	15.1 J	<15.1	15.1 J	112
SW-7-S-2'-112624	11/26/2024	In Situ	2	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	157
SW-8-S-2'-112624	11/26/2024	In Situ	2	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	144
SW-9-S-2'-112624	11/26/2024	In Situ	2	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	161 F1
SW-10-S-2'-112624	11/26/2024	In Situ	2	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	102
H-S-S-112024	11/20/2024	In Situ	1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	5.42 J
Backfill-S-111924	11/19/2024		NA	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	50.6	<15.1	50.6	23.4
NMOCD Reclamation Standard				10	--	--	--	50	--	--	--	100	600
NMOCD Closure Criteria				10	--	--	--	50	--	--	--	2,500	20,000

Legend:

Analytes exceeding New Mexico Administration Code (NMAC) standards are indicated in **bold**

< indicates the analyte was not detected at or above the Method Detection Limit (MDL)

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

F1: MS and/or MSD recovery exceeds control limits

NA: Not available/not applicable

mg/kg: Milligram per Kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics

"": Indicates one foot

ft: foot

B: Base sample

SW: Sidewall sample

H-S: Horizontal sample

Notes:

1. Chloride analyzed by EPA Method 300

2. Total TPH analyzed by SW846-8015 NM

3. TPH analyzed by SW846-8015 NM/8015NM_S_Prep

4. BTEX analyzed by SW846-8021B/5030B_SolidNAC

5. Total BTEX analyzed by TAL SOP

6. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

NMOCD: New Mexico Oil Conservation Division

--: No individual standard

Blue= Deferral areas

Table 2
COG Operating
Columbus Fee 23 24
Lea County, New Mexico

Sample ID	Soil Status	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				GRO	DRO	MRO	Total						
T-1	Removed	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	386
		"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	130
		"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	354
		"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	624
		"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,210
T-2	Removed	6/12/2024	0-1	<49.7	62.9	<49.7	62.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	8,480
		"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,500
		"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,490
		"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	321
		"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,200
T-3	Removed	6/12/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	988
		"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,330
		"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6,950
		"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,320
		"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,510
T-4	Removed	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	567
		"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	141
		"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	310
		"	3.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	459
T-5	Removed	6/12/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	517
		"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,280
		"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,530
		"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	941
H-1	In Situ	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	62.0
H-2	In Situ	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.4
H-3	In Situ	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	71.0
H-4	In Situ	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.4
H-5	In Situ	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	40.4
H-6	In Situ	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	62.9
H-7	In Situ	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.3
H-8	In Situ	6/12/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	29.4
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 Hydrocarbon

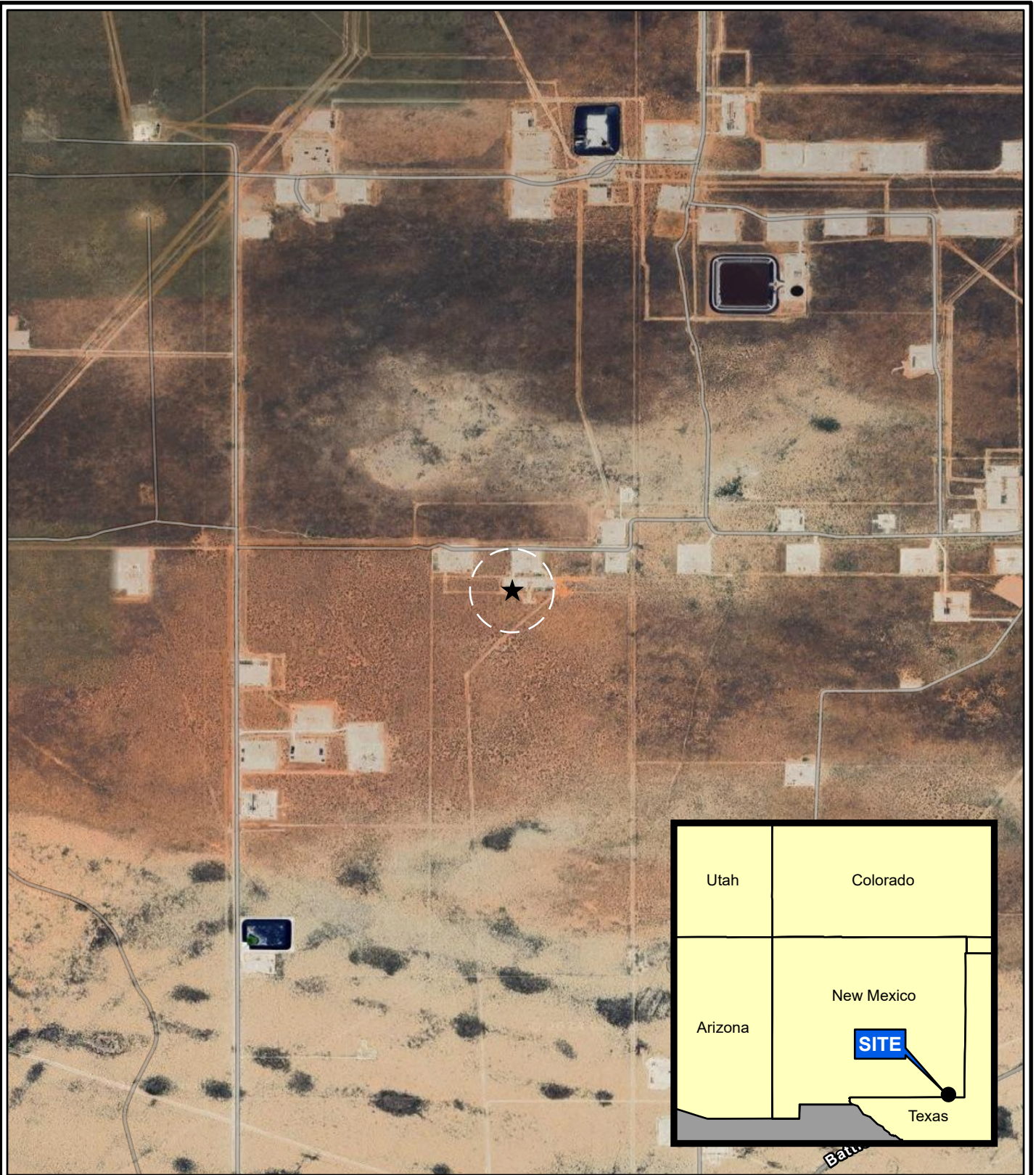
ft - feet

(S) Sample Point

Blue Exceeds Reclamation Standards

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°

0 2,000 4,000
Feet
GRAPHIC SCALE

Legend

★ Site Location

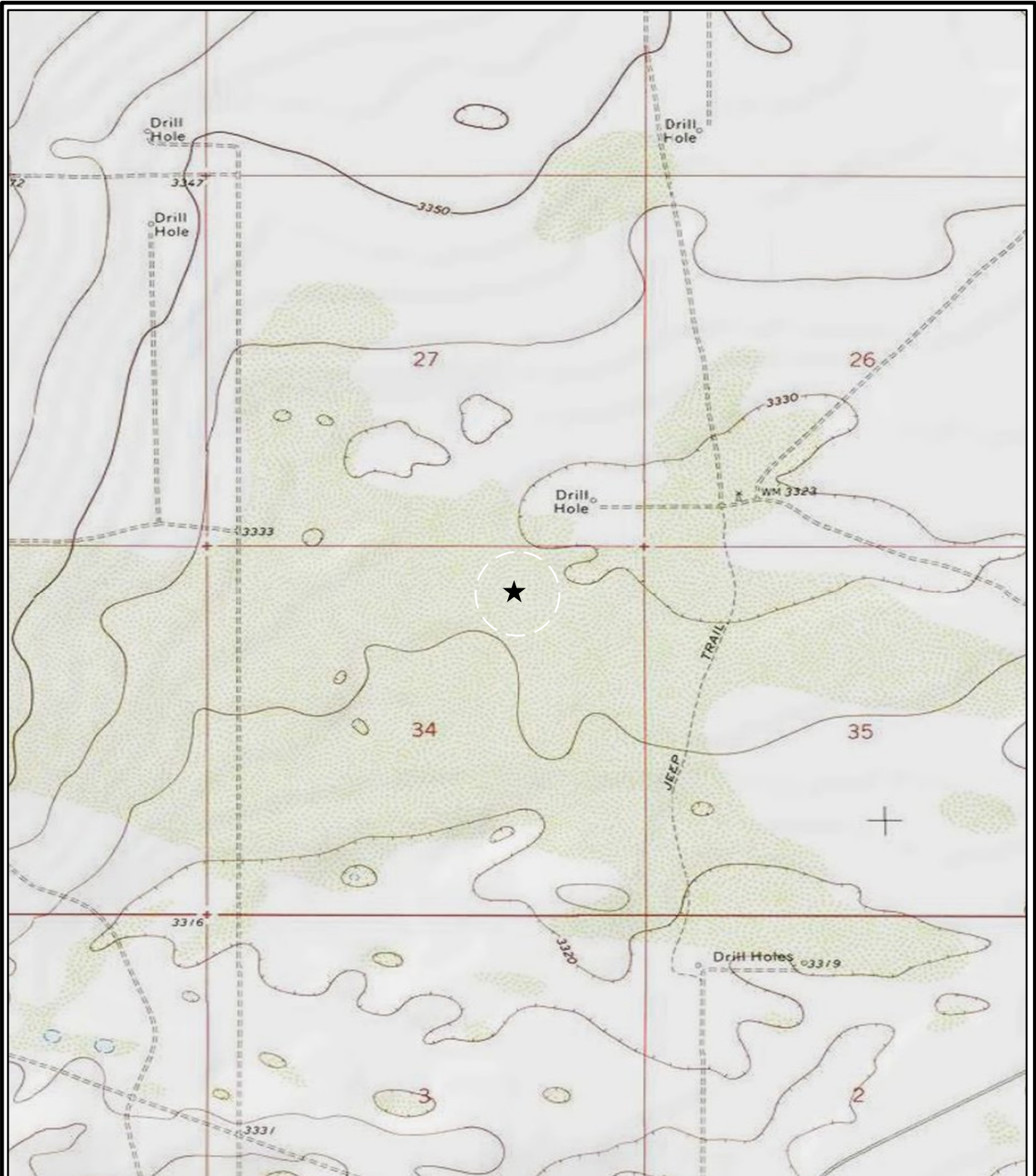
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1

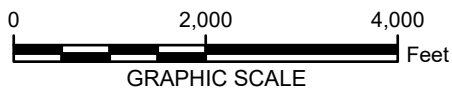
City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
T:\EHSS\ArcGIS_ProLand\COG_COPI\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



ESRI: USGS Topo Service



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°



Legend

★ Site Location

COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:36 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°



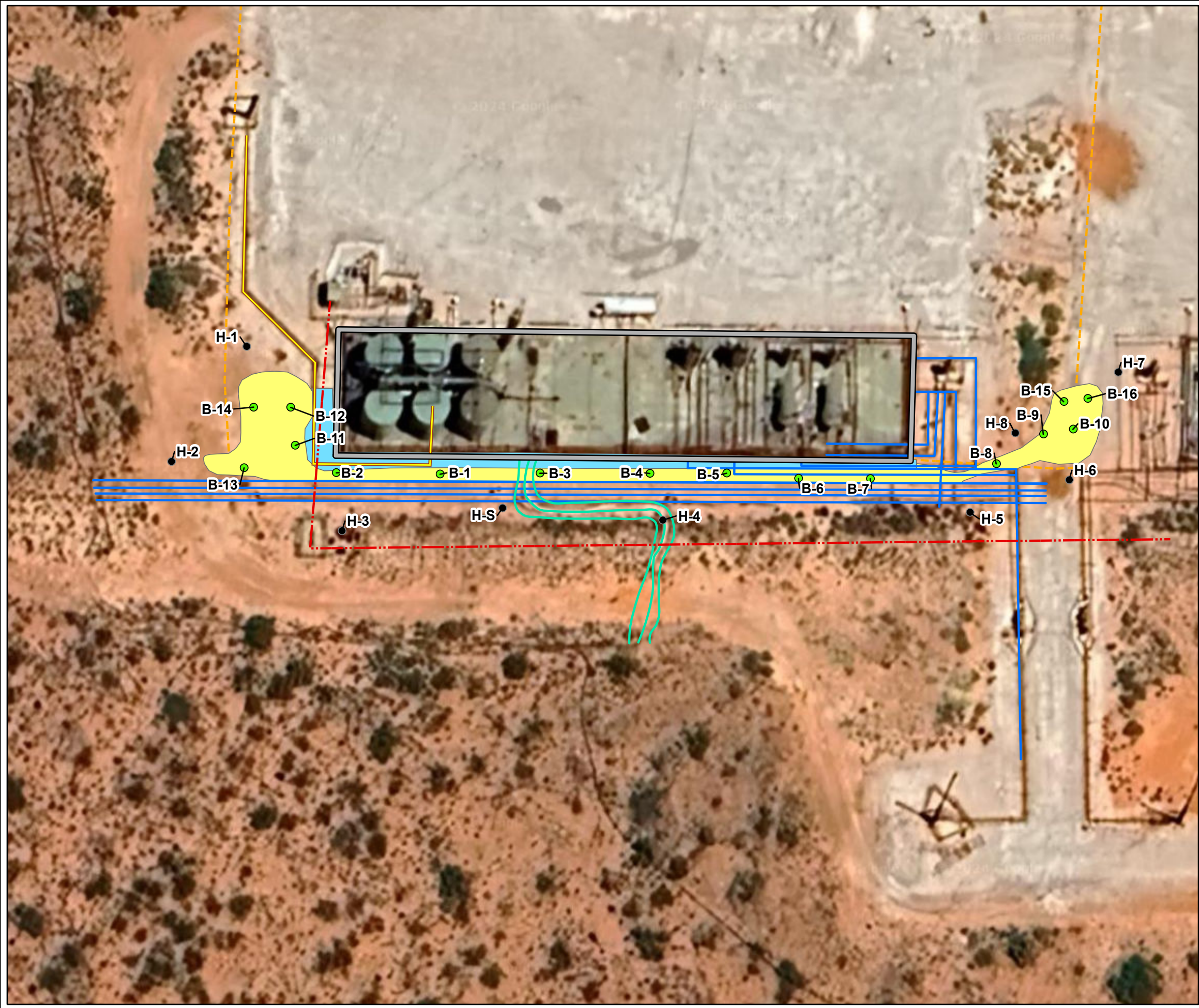
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP



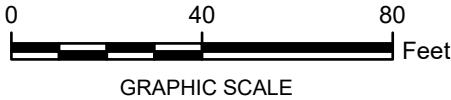
FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmm1306 Client (Project #)
T:\ENV\Upstream\ColumbusPro\ColumbusFee.aprx 12/11/2024 10:50 AM



Legend

- Base Sample
- Horizontal Sample
- Deferral Area
- ▬ Metal Containment
- - - Buried Gas Line
- Elevated Steel Line
- ~ Surface Polyline
- Surface Steel Line
- Excavation Area 4'
- - - Well Pad



Datum: D, WGS_1984
Source: ESRI Online, Google Earth
Facility Location: 32.092465°, -103.55617°

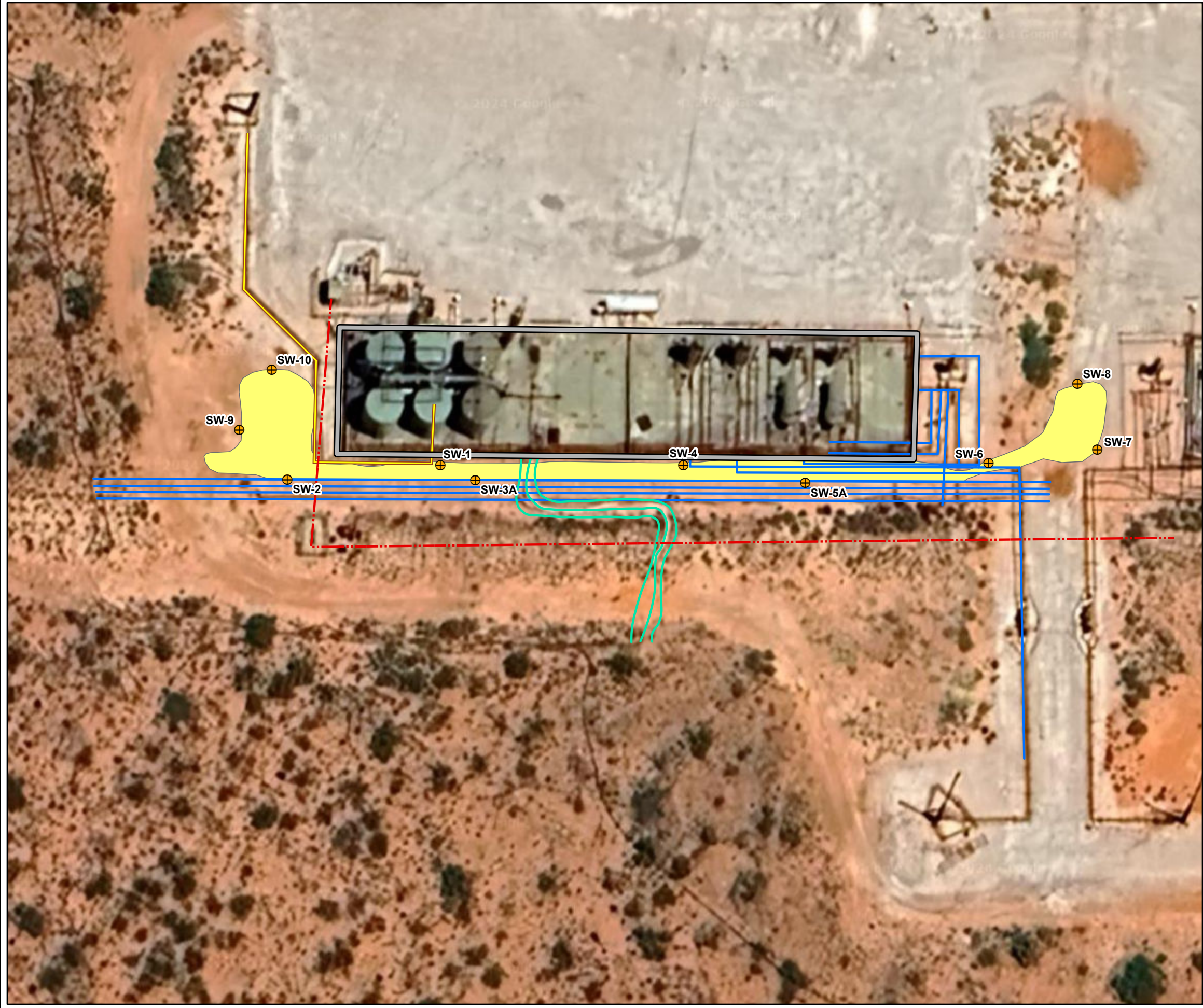
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE
LOCATIONS AND DEFERRAL MAP



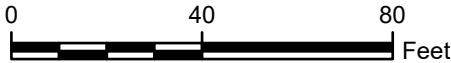
FIGURE
4

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmm1306 ; Client (Project #)
T:\ENV\Upstream\ColumbusPro\ColumbusFee.aprx 12/10/2024 2:06 PM



Legend

- ⊕ Sidewall Sample
- ▬ Metal Containment
- - - Buried Gas Line
- Elevated Steel Line
- ~ Surface Polyline
- Surface Steel Line
- Excavation Area



GRAPHIC SCALE

Datum: D_WGS_1984
Source: ESRI Online, Google Earth
Facility Location: 32.092465°, -103.55617°

COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL
SAMPLE LOCATIONS



FIGURE
5

Photographic Logs



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 1	Date: 09/17/2024		
Direction Photo Taken: Facing E			
Description: Pre-site conditions prior to excavation			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 2	Date: 12/3/2024		
Direction Photo Taken: W			
Description: Excavation area E			

Columbus Fee 23-24
Dec 3, 2024 9:06:21 AM
 32°09'N 103°56'W



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 3	Date: 12/3/2024		
Direction Photo Taken: NW			
Description: Excavation area E			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 4	Date: 12/3/2024		
Direction Photo Taken: E			
Description: Excavation area W			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 5	Date: 12/3/2024	 Columbus Fee 23-24 Dec 3, 2024 12:33:07 PM	
Direction Photo Taken: NW			
Description: Excavation area E			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 6	Date: 12/5/2024	 Columbus Fee 23-24 Dec 5, 2024 12:09:58 PM 32°09'N 103°56'W	
Direction Photo Taken: W			
Description: Excavation area W			



PHOTOGRAPHIC LOG

Property Name:

Columbus Fee 23-24 Tank Battery

Location:

Lea County, NM

Case No.

NAPP2409554213

Photo No.

7

Date:

12/5/2024

Direction Photo Taken:

SW

Description:

Excavation area E



PHOTOGRAPHIC LOG

Property Name:

Columbus Fee 23-24 Tank Battery

Location:

Lea County, NM

Case No.

NAPP2409554213

Photo No.

8

Date:

12/5/2024

Direction Photo Taken:

SE

Description:

Excavation area W

32.092465, -103.55617



Appendix A

Initial C-141 Form Incident # NAPP2409554213

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	NAPP2409554213
District RP	
Facility ID	fAPP2203353212
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips Company	OGRID	229137
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.09238333 Longitude -103.55659722
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Columbus Fee 23 & 24	Site Type	Tank Battery
Date Release Discovered	4/4/2024	API# (if applicable)	

Unit Letter	Section	Township	Range	County
B	34	25S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Sandra Brown)

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) 110.6090	Volume Recovered (bbls) 75
	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

The release was caused by a hole in a water transfer line.

This release was off pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2409554213
District RP	
Facility ID	fAPP2203353212
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 was >25 BBLs
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Jacob Laird to the NMOCD on 4/4/2024 via the NOR submission portal.	

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 <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: ??/??/2023
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u> Received by: _____ Date: _____	

Appendix B

Site Characterization

COG Operating

Karst Map
Columbus Fee 23-24 CTB

Legend

- High
- Low
- Medium

Site Location



800 ft

National Flood Hazard Layer FIRMette



103°33'42"W 32°5'48"N



Released to Imaging: 2/5/2025 4:27:18 PM

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
OTHER AREAS		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
GENERAL STRUCTURES		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
OTHER FEATURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
MAP PANELS		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/30/2020 at 1:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



ArcGIS Web Map

Legend

◆ OSE_PODs

Columbus Fee 23/24 CTB

Columbus Federal 21/22 CTB

Distance: 0.5 Miles





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02313	CUB	LE		2	3	3	26	25S	33E	636971	3552098*	910	150	110	40

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 636215.7

Northing (Y): 3551589.36

Radius: 1610

*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.

12/30/20 12:05 PM

Page 1 of 1

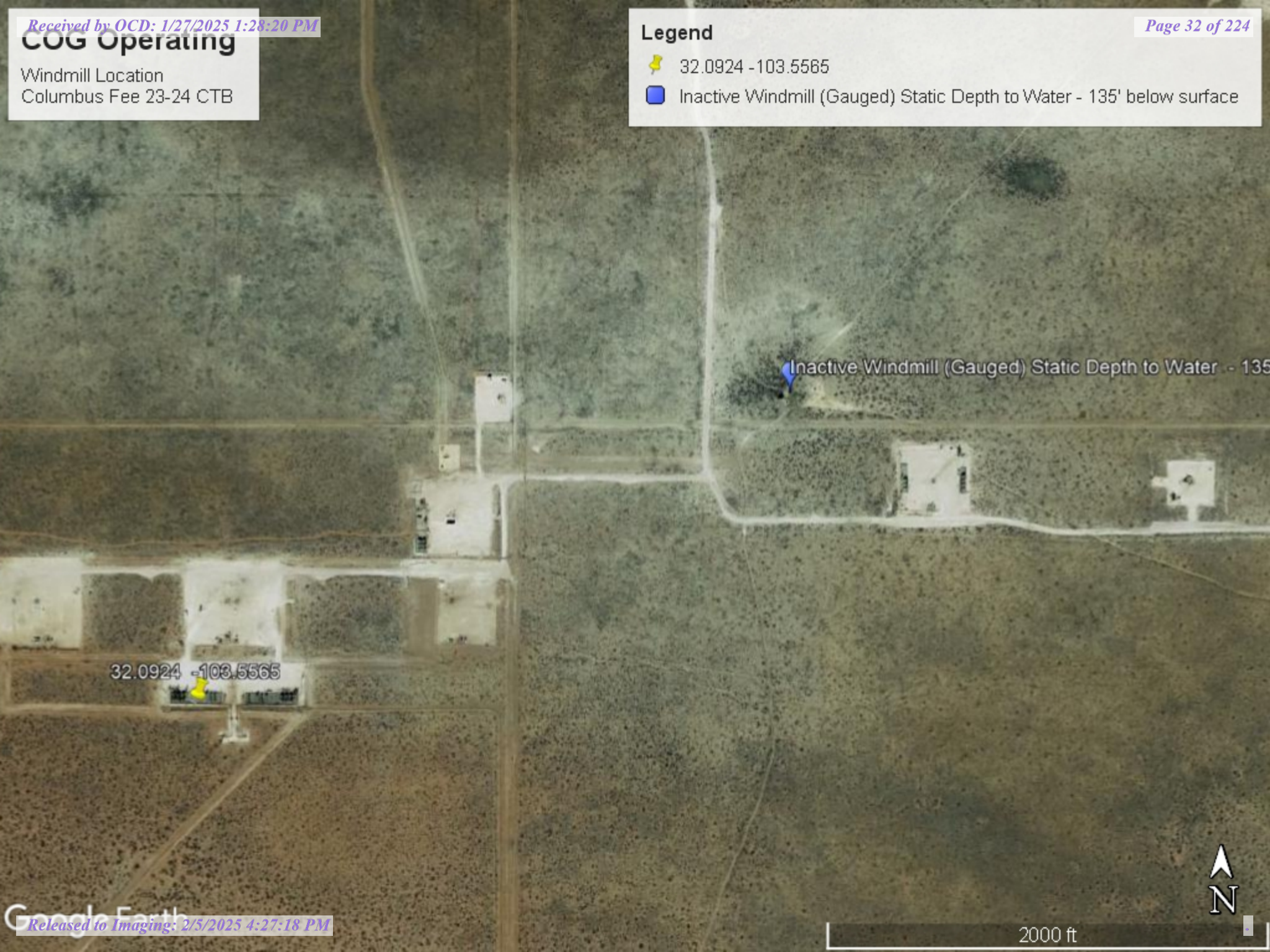
WATER COLUMN/ AVERAGE
DEPTH TO WATER

COG Operating

Windmill Location
Columbus Fee 23-24 CTB

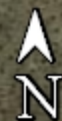
Legend

-  32.0924 -103.5565
-  Inactive Windmill (Gauged) Static Depth to Water - 135' below surface



32.0924 -103.5565

Inactive Windmill (Gauged) Static Depth to Water - 135'



2000 ft

Appendix C

Work Plan



COG (ConocoPhillips)

2024 Work Plan

Columbus Fee 23 & 24 Tank Battery

Incident # NAPP2409554213

Lea County, New Mexico

October 2024

2024 Work Plan

2024 Work Plan

Columbus Fee 23 & 24 Tank Battery
Incident # NAPP2409554213
Lea County, New Mexico

October 2024

Prepared By:

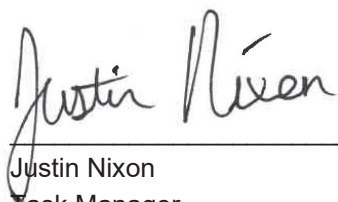
Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800

Prepared For:

Ike Tavaréz
Project Manager
ConocoPhillips RM&R
600 W. Illinois Ave.
Midland, TX 79701

Our Ref:

30241529



Justin Nixon
Task Manager



Scott Foord, PG
Certified Project Manager

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

www.arcadis.com

2024 Work Plan

Contents

1	Introduction.....	1
2	Project Summary	1
2.1	Incident # NAPP2409554213.....	1
3	Site Characterization	1
4	NMAC Regulatory Criteria	2
5	Site Assessment Activities.....	2
6	Proposed Work Plan.....	3
7	Work Plan Approval Request	3

Tables

Table 1.	2024 Soil Analytical Results
----------	------------------------------

Figures

Figure 1.	Site Location Map
Figure 2.	Topographic
Figure 3.	Depth to Groundwater Map
Figure 4.	Proposed Excavation and Sample Location Map

Photographic Logs

2024 Soil Assessment Photographic Log

Appendices

Appendix A.	Initial C-141 Form Incident # NAPP2409554213
Appendix B.	Site Characterization
Appendix C.	Laboratory Analytical Reports

2024 Work Plan

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Columbus Fee 23 & 24 Tank Battery (Site) located at 32.092465, -103.55617. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on state land approximately 28-miles southwest of the City of Jal in Unit B, Section 34, Township 25 South, Range 33 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAPP2409554213

According to the Initial C-141 Form, on April 4, 2024, a hole in the water transfer line was found resulting in the release of approximately 110.6090 barrels (bbls) of produced water to ground surface at the Site with 75 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on April 4, 2024 and assigned Incident ID number NAPP2409554213. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. There's a registered water well 0.56 miles northeast of the site with a reported depth of 110' below ground surface (bgs). A windmill is located approximately 0.5 miles northeast of the site. During inspection the windmill was inactive and had access to the well to collect a static water level. Once measured, the windmill had a depth of 135 feet below ground surface (bgs). The windmill location was used in a 2021 closure report approved by the NMOCD from a previous release at the site with incident number NRM2020456890. The windmill location can be found in **Figure 3**.

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: > 5 miles
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark): Between ½ and 1 mi.
- An occupied permanent residence, school, hospital, institution, or church: > 5 miles
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 500 ft and 1/2 mile
- Any other fresh water well or spring: Between 500 ft and 1/2 mile
- Incorporated municipal boundaries or a defined municipal fresh water well field: > 5 miles
- A wetland: Between 1/2 and 1 mile
- A subsurface mine: > 5 miles
- A (non-karst) unstable area: > 5 miles

2024 Work Plan

- Categorize the risk of this well/site being in Karst Geology: Low
- A 100-year floodplain: >5 mi.
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

Site characterization information can be found in **Appendix B**.

4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Chloride	600 mg/kg

The NMOCD classifies the Site to use the least stringent remediation regulatory limits for soils at depths greater than 4 feet bgs due to depth to groundwater being confirmed greater than 100 feet bgs, and no additional conditions or stipulations are applicable to the Site. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria apply to the Site:

Constituent	Limit (mg/kg)
Chloride	20,000 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	2,500 mg/kg
GRO and DRO	1,000 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Benzene	10 mg/kg

5 Site Assessment Activities

On June 12, 2024, Carmona Resources performed site assessment activities to evaluate soil impacts stemming from the release. A total of eleven (13) sample points were advanced to depths ranging from the surface to 4 feet

2024 Work Plan

bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Soil sample locations are shown on **Figure 3**.

Horizontal delineation was achieved during the initial soil assessment to confirm impact from the release is below the NMOCD reclamation standards. Vertical delineation was assessed as well to confirm impacts for both reclamation and remediation standards established by the NMOCD to determine the potential area of concern within the top 4 feet of soil. Arcadis will use this data to guide reclamation and remediation activities prior to collecting any laboratory analytical samples. Soil sample analytical results are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix C**.

6 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations in soil samples collected during site assessment activities, COG proposes to remediate the areas shown in **Figure 4** and highlighted (blue) in **Table 1**.

The proposed excavation encompasses a surface area of approximately 4,217 square feet. In accordance with NMAC 19.15.29.12(D)(1)(b) COG proposes the following alternative confirmation sampling plan as a variance request to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 400 square foot intervals for analysis of chloride by EPA Method 300.0, BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c).

An estimated 1,284 cubic yards of soil will be removed and transported to the nearest NMOCD approved disposal facility. Following completion of excavation activities, the areas will be backfilled with clean material and reclaimed to match the original surface conditions and drainage.

The disturbed areas will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an BLM #2 approved seed mixture.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to schedule field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

7 Work Plan Approval Request

Upon completion of the above proposed soil remediation activities, a final closure request report describing the remediation activities will be submitted to the NMOCD for review. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Justin Nixon at 432-296-9547.

Tables

Table 1
COG Operating
Columbus Fee 23 & 24
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	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	386
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	130
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	354
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	624
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,210
T-2	6/12/2024	0-1	<49.7	62.9	<49.7	62.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	8,480
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,500
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,490
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	321
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,200
T-3	6/12/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	988
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,330
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6,950
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,320
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,510
T-4	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	567
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	141
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	310
	"	3.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	459
T-5	6/12/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	517
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,280
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,530
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	941
H-1	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	62.0
H-2	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.4
H-3	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	71.0
H-4	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.4
H-5	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	40.4
H-6	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	62.9
H-7	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.3
H-8	6/12/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	29.4
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

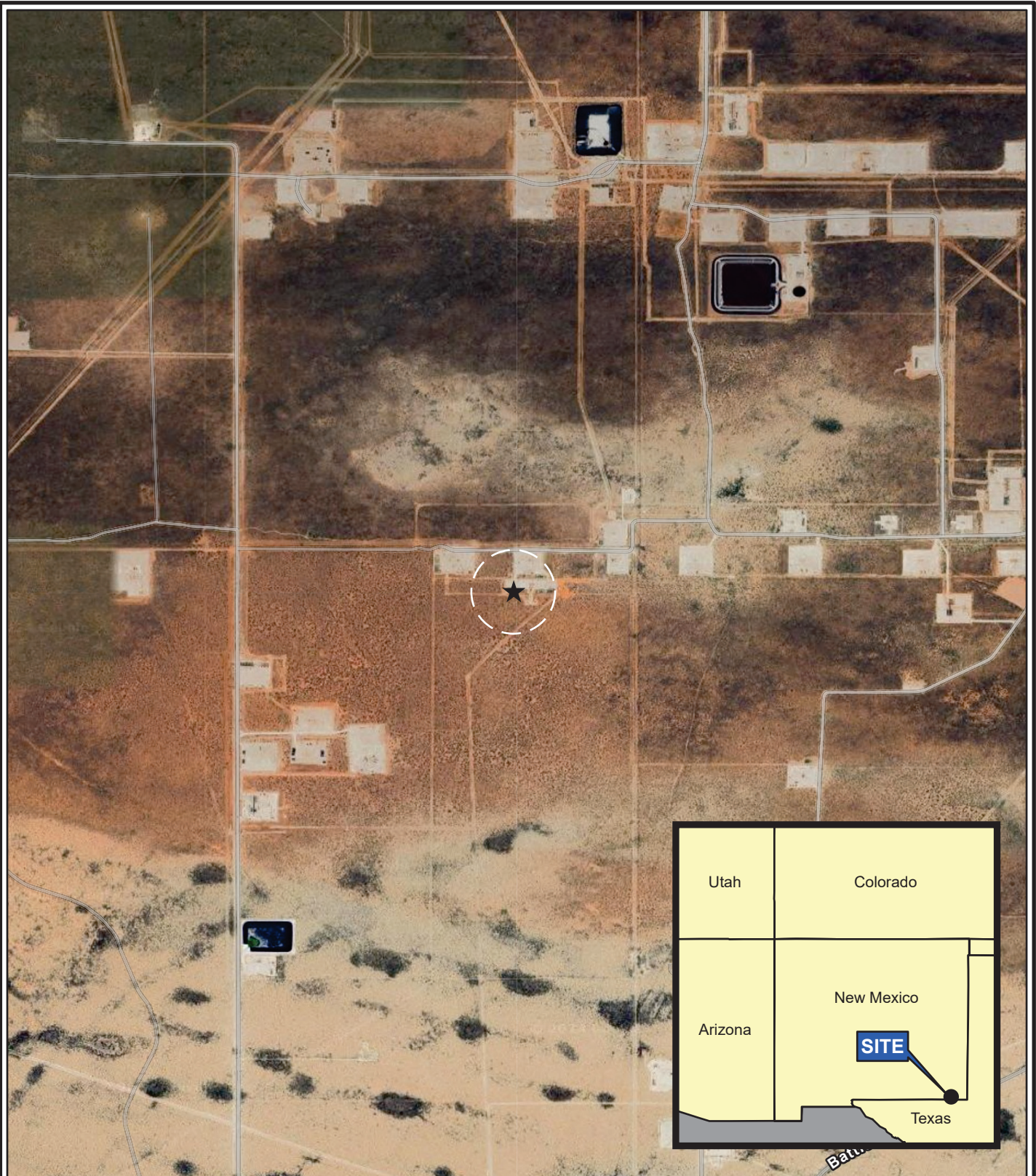
ft - feet

(S) Sample Point

Exceeds

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°

0 2,000 4,000
Feet
GRAPHIC SCALE

Legend

★ Site Location

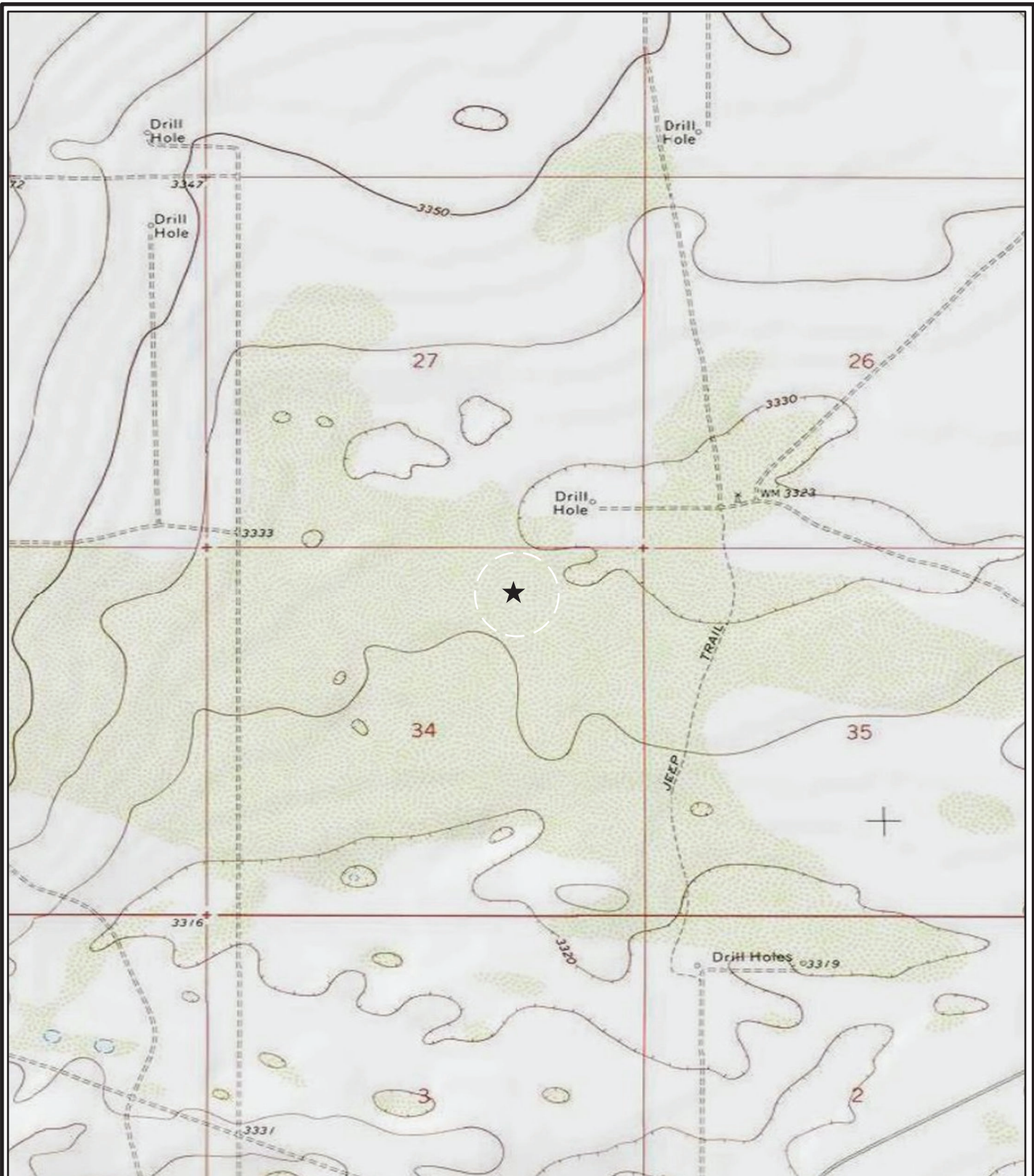
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1

City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
 T:\EHSS\ArcGIS_ProLand\COG_COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



ESRI: USGS Topo Service



NOTES:
 Datum: D_WGS_1984
 Source: Google Earth
 Site Location: 32.092465°, -103.556617°

0 2,000 4,000
 Feet
 GRAPHIC SCALE

Legend

★ Site Location

COG (CONOCOPHILLIPS)
 COLUMBUS FEE 23-24 SWD
 LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:36 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°



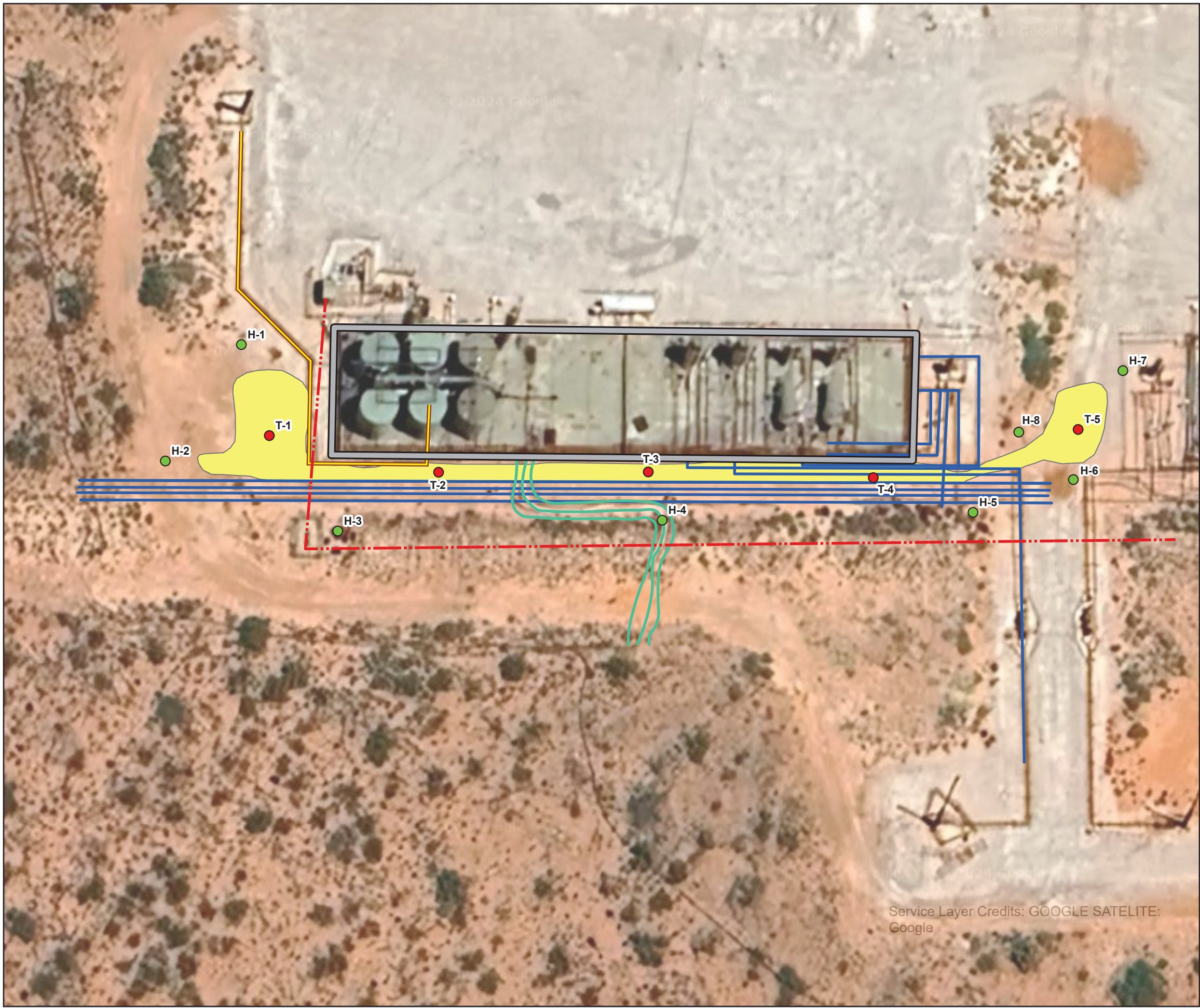
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP



FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wherry Client (Project #)
T:\EHSS\ArcGIS_ProLand\COG_COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



Service Layer Credits: GOOGLE SATELITE:
Google

Legend

Soil Samples

- Above Reclamation Limit
- Below Reclamation Limit

Metal Containment

- Buried Gas Line
- Elevated Steel Line
- ~ Surface Polyline
- Surface Steel Line
- Excavation Area

Sampling_Points



GRAPHIC SCALE

COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

**PROPOSED EXCAVATION AND
SAMPLE LOCATION MAP**



FIGURE
4

Photographic Logs



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 1	Date: 09/17/2024		
Direction Photo Taken: Facing NE			
Description: Excavation area 32.092465, -103.55617			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 2	Date: 09/17/2024		
Direction Photo Taken: NW			
Description: Excavation area 32.092465, -103.55617			

Appendix A

Initial C-141 Form Incident # NAPP2409554213

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	NAPP2409554213
District RP	
Facility ID	fAPP2203353212
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips Company	OGRID	229137
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.09238333 Longitude -103.55659722
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Columbus Fee 23 & 24	Site Type	Tank Battery
Date Release Discovered	4/4/2024	API# (if applicable)	

Unit Letter	Section	Township	Range	County
B	34	25S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Sandra Brown)

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) 110.6090	Volume Recovered (bbls) 75
	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

The release was caused by a hole in a water transfer line.
This release was off pad.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2409554213
District RP	
Facility ID	fAPP2203353212
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 was >25 BBLs
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Jacob Laird to the NMOCD on 4/4/2024 via the NOR submission portal.	

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 <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: ??/??/2023
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u> Received by: _____ Date: _____	

Appendix B

Site Characterization

COG Operating

Karst Map
Columbus Fee 23-24 CTB

Legend

- High
- Low
- Medium

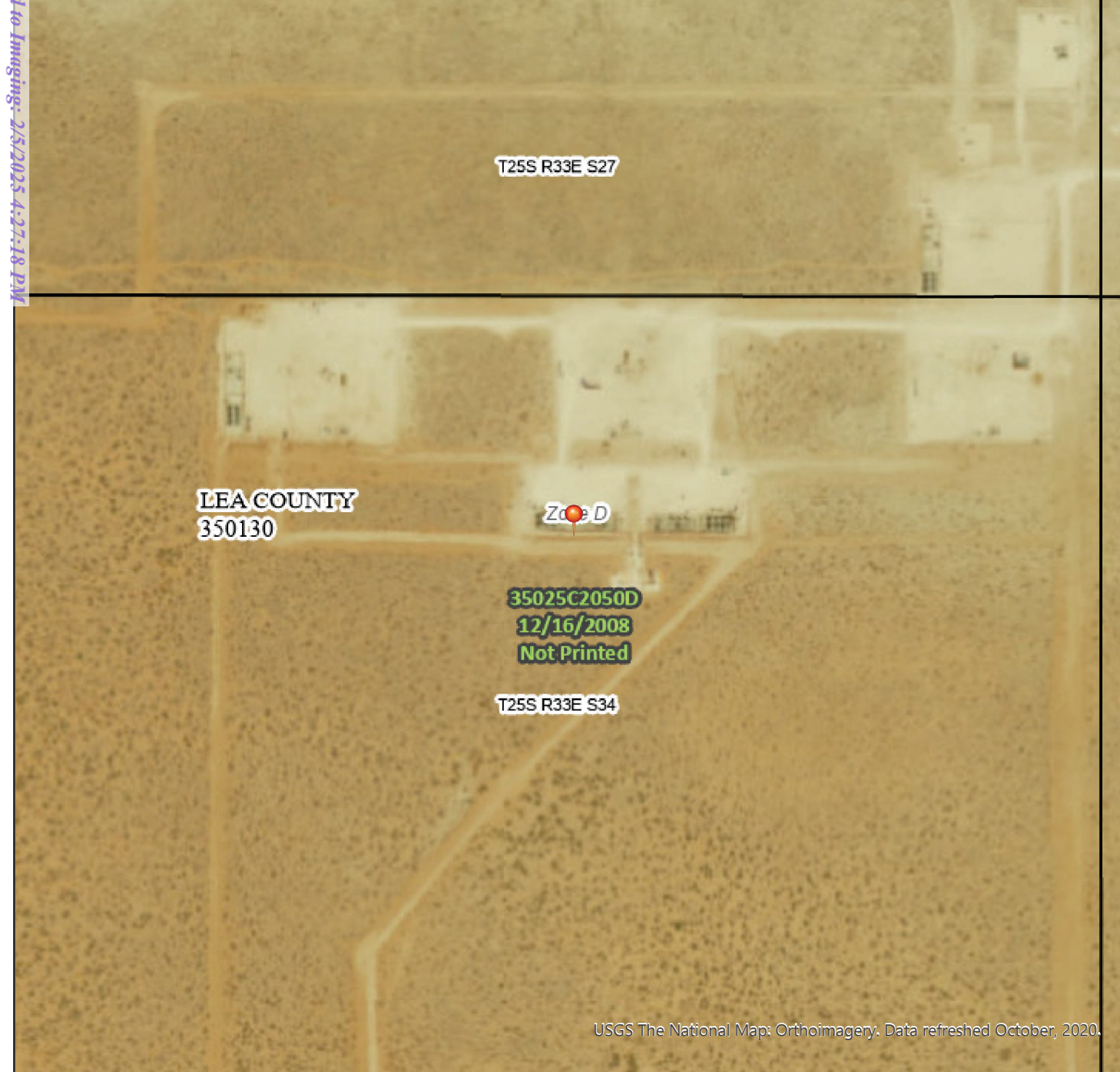
Site Location

Released to Imaging: 2/5/2025 4:27:18 PM

National Flood Hazard Layer FIRMette



103°33'42"W 32°5'48"N



103°33'5"W 32°5'17"N

USGS The National Map: Orthoimagery. Data refreshed October, 2020.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone B
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

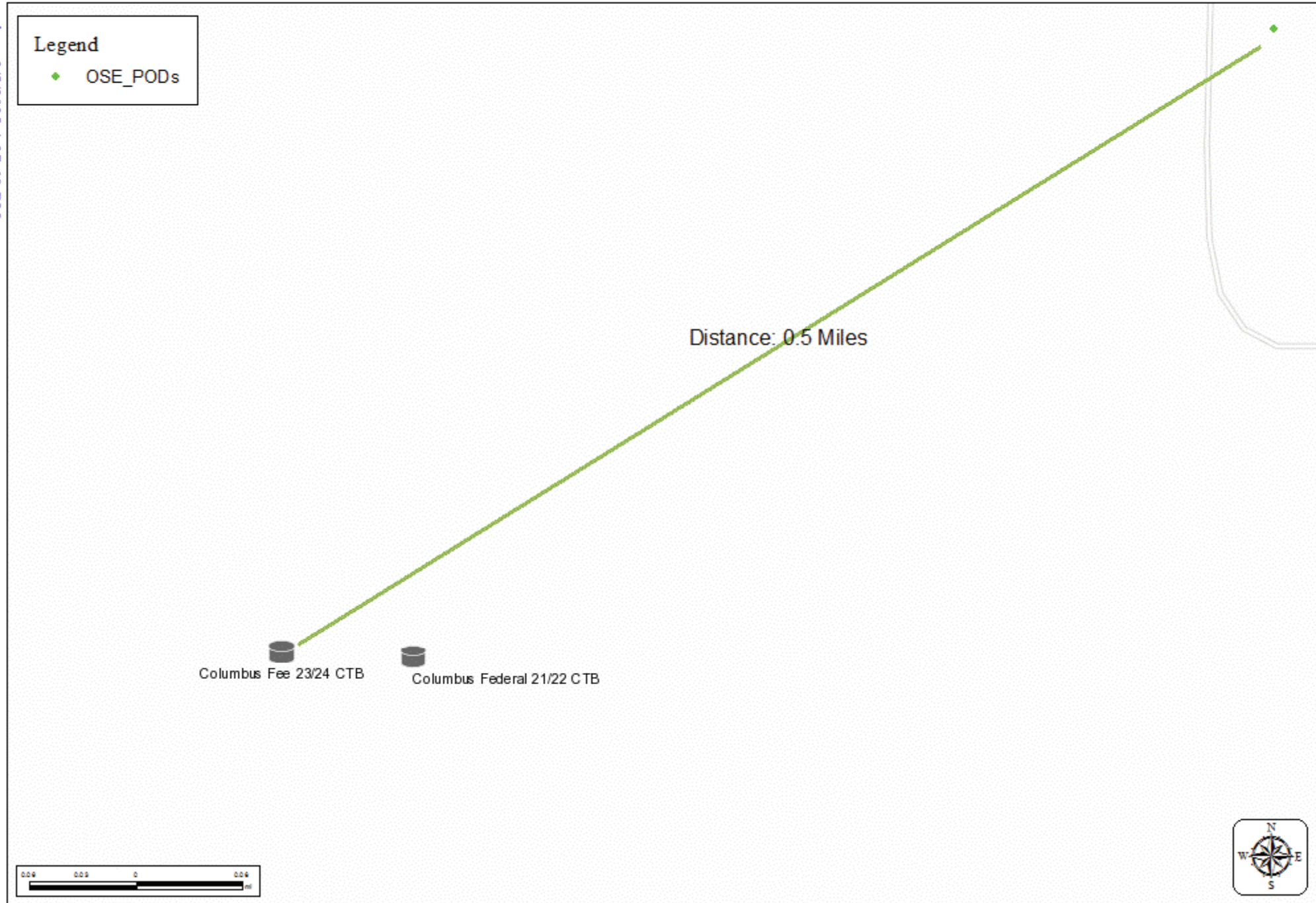
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/30/2020 at 1:44 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Received by OCD: 1/2/2025 1:28:20 PM

Page 54 of 224





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02313	CUB	LE		2	3	3	26	25S	33E	636971	3552098*	910	150	110	40

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 636215.7

Northing (Y): 3551589.36

Radius: 1610

*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.

12/30/20 12:05 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

COG Operating

Windmill Location
Columbus Fee 23-24 CTB

Legend

-  32.0924 -103.5565
-  Inactive Windmill (Gauged) Static Depth to Water - 135' below surface

Inactive Windmill (Gauged) Static Depth to Water - 135'

32.0924 -103.5565

Google Earth

2000 ft



Appendix C

Laboratory Analytical Reports



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2024 3:26:05 PM

JOB DESCRIPTION

Columbus Fee 23-24 SWD Line
Lea County, NM

JOB NUMBER

880-44727-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/17/2024 3:26:05 PM

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

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Laboratory Job ID: 880-44727-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1

Job ID: 880-44727-1

Eurofins Midland

Job Narrative 880-44727-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/13/2024 1:20 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 -7.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-44727-1), H-2 (0-0.5') (880-44727-2), H-3 (0-0.5') (880-44727-3), H-4 (0-0.5') (880-44727-4), H-5 (0-0.5') (880-44727-5), H-6 (0-0.5') (880-44727-6), H-7 (0-0.5') (880-44727-7) and H-8 (0-0.5') (880-44727-8).

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: CCV was biased high for both the gasoline and diesel hydrocarbon ranges. Other bracketing verifications were acceptable within a 12 hour window; therefore, the data was qualified and reported.

(CCV 880-83189/30)

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 and precision for preparation batch 880-83148 and analytical batch 880-83203 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 11:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/13/24 13:48	06/14/24 11:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 11:20	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			06/14/24 11:20	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			06/14/24 21:02	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	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/13/24 16:20	06/14/24 21:02	1
o-Terphenyl	88		70 - 130	06/13/24 16:20	06/14/24 21:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.0		4.96		mg/Kg			06/14/24 09:23	1

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 11:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:48	06/14/24 11:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:48	06/14/24 11:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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			06/14/24 11:41	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			06/14/24 21:18	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	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/13/24 16:20	06/14/24 21:18	1
o-Terphenyl	95		70 - 130				06/13/24 16:20	06/14/24 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.98		mg/Kg			06/14/24 09:29	1

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 12:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/13/24 13:48	06/14/24 12:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 12:01	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			06/14/24 12:01	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			06/14/24 21:33	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		06/13/24 16:20	06/14/24 21:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 21:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 16:20	06/14/24 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				06/13/24 16:20	06/14/24 21:33	1
o-Terphenyl	76		70 - 130				06/13/24 16:20	06/14/24 21:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.0		4.96		mg/Kg			06/14/24 09:35	1

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 12:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/13/24 13:48	06/14/24 12:22	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			06/14/24 12:22	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			06/14/24 21:49	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		06/13/24 16:20	06/14/24 21:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/13/24 16:20	06/14/24 21:49	1
o-Terphenyl	87		70 - 130				06/13/24 16:20	06/14/24 21:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		4.97		mg/Kg			06/14/24 09:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:48	06/14/24 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 12:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 12:42	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			06/14/24 12:42	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			06/14/24 22:05	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	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/13/24 16:20	06/14/24 22:05	1
o-Terphenyl	93		70 - 130	06/13/24 16:20	06/14/24 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		4.98		mg/Kg			06/14/24 09:58	1

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

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/13/24 13:48	06/14/24 13:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/13/24 13:48	06/14/24 13:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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			06/14/24 13:03	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			06/14/24 22:20	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	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/13/24 16:20	06/14/24 22:20	1
o-Terphenyl	82		70 - 130				06/13/24 16:20	06/14/24 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.9		5.04		mg/Kg			06/14/24 10:04	1

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

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 13:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 13:23	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			06/14/24 13:23	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			06/14/24 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	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 16:20	06/14/24 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				06/13/24 16:20	06/14/24 22:35	1
o-Terphenyl	82		70 - 130				06/13/24 16:20	06/14/24 22:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		4.99		mg/Kg			06/14/24 10:10	1

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

Lab Sample ID: 880-44727-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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		06/13/24 13:48	06/14/24 13:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 13:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 13:44	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			06/14/24 13:44	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			06/14/24 22:50	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	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/13/24 16:20	06/14/24 22:50	1
o-Terphenyl	81		70 - 130				06/13/24 16:20	06/14/24 22:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		4.98		mg/Kg			06/14/24 10:16	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, 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	DFBZ1				
		(70-130)	(70-130)				
880-44727-1	H-1 (0-0.5')	103	102				
880-44727-1 MS	H-1 (0-0.5')	100	99				
880-44727-1 MSD	H-1 (0-0.5')	98	98				
880-44727-2	H-2 (0-0.5')	101	101				
880-44727-3	H-3 (0-0.5')	103	102				
880-44727-4	H-4 (0-0.5')	101	100				
880-44727-5	H-5 (0-0.5')	102	102				
880-44727-6	H-6 (0-0.5')	100	100				
880-44727-7	H-7 (0-0.5')	102	101				
880-44727-8	H-8 (0-0.5')	102	101				
LCS 880-83122/1-A	Lab Control Sample	101	100				
LCSD 880-83122/2-A	Lab Control Sample Dup	102	100				
MB 880-83122/5-A	Method Blank	101	99				
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	OTPH1						
		(70-130)	(70-130)						
880-44727-1	H-1 (0-0.5')	96	88						
880-44727-2	H-2 (0-0.5')	100	95						
880-44727-3	H-3 (0-0.5')	81	76						
880-44727-4	H-4 (0-0.5')	95	87						
880-44727-5	H-5 (0-0.5')	97	93						
880-44727-6	H-6 (0-0.5')	90	82						
880-44727-7	H-7 (0-0.5')	88	82						
880-44727-8	H-8 (0-0.5')	89	81						
890-6830-A-67-E MS	Matrix Spike	104	92						
890-6830-A-67-F MSD	Matrix Spike Duplicate	103	90						
LCS 880-83153/2-A	Lab Control Sample	106	86						
LCSD 880-83153/3-A	Lab Control Sample Dup	110	87						
MB 880-83153/1-A	Method Blank	93	85						
Surrogate Legend									
1CO = 1-Chlorooctane									
OTPH = o-Terphenyl									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83122/5-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170	06/17/24 17:4	06/14/24 10:8	1
1i4-Chlorobenzene (Surr)	DD		30 - 170	06/17/24 17:4	06/14/24 10:8	1

Lab Sample ID: LCS 880-83122/1-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1029		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		30 - 170
1i4-Chlorobenzene (Surr)	100		30 - 170

Lab Sample ID: LCSD 880-83122/2-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	3	35
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		30 - 170
1i4-Chlorobenzene (Surr)	100		30 - 170

Lab Sample ID: 880-44727-1 MS

Matrix: Solid

Analysis Batch: 83198

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

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1059		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.0996	0.1005		mg/Kg		101	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1 MS

Matrix: Solid

Analysis Batch: 83198

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

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09861		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2068		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1032		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		30 - 170
1i4-Chlorobenzene (Surr)	DD		30 - 170

Lab Sample ID: 880-44727-1 MSD

Matrix: Solid

Analysis Batch: 83198

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

Prep Type: Total/NA

Prep Batch: 83122

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	0.1004		mg/Kg		100	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.09320		mg/Kg		92	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.101	0.09168		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1905		mg/Kg		94	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09769		mg/Kg		97	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	D,		30 - 170
1i4-Chlorobenzene (Surr)	D,		30 - 170

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

Lab Sample ID: MB 880-83153/1-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83153

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		06/13/24 16:20	06/14/24 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-c tlorooa9Tne	D7		30 - 170	06/17/24 16:20	06/14/24 1D0,	1
o-peryt en5l	, 8		30 - 170	06/17/24 16:20	06/14/24 1D0,	1

Lab Sample ID: LCS 880-83153/2-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	939.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	863.8		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-83153/2-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83153

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-c t l o r o o a 9 l n e	106		30 - 170
o-p e r y t e n 5 l	, 6		30 - 170

Lab Sample ID: LCSD 880-83153/3-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83153

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	969.3		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	916.3		mg/Kg		92	70 - 130	6	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-c t l o r o o a 9 l n e	110										
o-p e r y t e n 5 l	, 3										

Lab Sample ID: 890-6830-A-67-E MS

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83153

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	999	709.4		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	720.0		mg/Kg		72	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-c t l o r o o a 9 l n e	104										
o-p e r y t e n 5 l	D2										

Lab Sample ID: 890-6830-A-67-F MSD

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83153

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	999	756.9		mg/Kg		76	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	705.2		mg/Kg		71	70 - 130	2	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-c t l o r o o a 9 l n e	107										
o-p e r y t e n 5 l	D0										

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83148/1-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/14/24 08:47	1

Lab Sample ID: LCS 880-83148/2-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-83148/3-A

Matrix: Solid

Analysis Batch: 83203

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	249.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-44726-A-1-C MS

Matrix: Solid

Analysis Batch: 83203

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	46900	F1	12400	60900	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-44726-A-1-D MSD

Matrix: Solid

Analysis Batch: 83203

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	46900	F1	12400	61010	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

GC VOA

Prep Batch: 83122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-83122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44727-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44727-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 83198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8021B	83122
MB 880-83122/5-A	Method Blank	Total/NA	Solid	8021B	83122
LCS 880-83122/1-A	Lab Control Sample	Total/NA	Solid	8021B	83122
LCSD 880-83122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83122
880-44727-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	83122

Analysis Batch: 83304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 83153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	83153
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015B NM	83153
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83153
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83153
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015B NM	83153
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83153

Analysis Batch: 83334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-83148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44726-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 83148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44726-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 83203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-2	H-2 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-3	H-3 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-4	H-4 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-5	H-5 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-6	H-6 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-7	H-7 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-8	H-8 (0-0.5')	Soluble	Solid	300.0	83148
MB 880-83148/1-A	Method Blank	Soluble	Solid	300.0	83148
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	300.0	83148
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83148
880-44726-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	83148
880-44726-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83148

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 11:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 11:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:02	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:23	CH	EET MID

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 11:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:18	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:29	CH	EET MID

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:33	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:35	CH	EET MID

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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			83334	06/14/24 21:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:49	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:41	CH	EET MID

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

Lab Sample ID: 880-44727-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:58	CH	EET MID

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

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:20	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:04	CH	EET MID

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

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:35	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44727-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:10	CH	EET MID

Client Sample ID: H-8 (0-0.5')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44727-8
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	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:16	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: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, 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	T104704400-23-26	06-30-24
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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Protocol References:
ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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

Sample Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44727-1	H-1 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-2	H-2 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-3	H-3 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-4	H-4 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-5	H-5 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-6	H-6 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-7	H-7 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-8	H-8 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

W



880-44727 Chain of Custody

Project Manager: Conner Moehring		Bill to: (if different)		Carmona Resources	
Company Name: Carmona Resources		Company Name:			
Address: 310 W Wall St Ste 500		Address:			
City/State ZIP: Midland, TX 79701		City, State ZIP:			
Phone: 432-813-6823		Email: mcarmona@carmonaresources.com			
Work Order Comments					
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Partund ☐					
State of Project:					
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐					
Deliverables: EDD ☐ ADAPT ☐ Other:					

Project Name:		Columbus Fee 23-24 SWD Line			Turn Around			ANALYSIS REQUEST												Preservative Codes	
Project Number:		2330		☒ Routine	☐ Rush		Pres. Code											None: NO	DI Water: H ₂ O		
Project Location:		Lea County, NM		Due Date:														Cool: Cool	MeOH: Me		
Sample's Name:		CRM																HCL: HC	HNO ₃ : HN		
PO#:																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐														H ₃ PO ₄ : HP		
Received intact:		Yes ☒ No ☐	Thermometer ID:	E56													NaHSO ₄ : NABIS				
Cold Custody Seals:		Yes ☐ No ☒ N/A	Correction Factor:	-1.1													Na ₂ S ₂ O ₅ : NaSO ₃				
Seal Custody Seals:		Yes ☐ No ☒ N/A	Temperature Reading:	-7.7													Zn Acetate+NaOH: Zn				
Labels/containers:				Corrected Temperature:	-7.8													NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont												Sample Comments		
H-1 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-2 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-3 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-4 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-5 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-6 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-7 (0-0.5')		6/12/2024		X		G	1	X	X	X											
H-8 (0-0.5')		6/12/2024		X		G	1	X	X	X											

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 1520

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44727-1
SDG Number: Lea County, NM

Login Number: 44727
List Number: 1
Creator: Rodriguez, Leticia

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	



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/18/2024 6:09:00 PM

JOB DESCRIPTION

Columbus Fee 23-24 SWD Line
Lea County, NM

JOB NUMBER

880-44729-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.



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
6/18/2024 6:09:00 PM

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

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Laboratory Job ID: 880-44729-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	25
QC Sample Results	27
QC Association Summary	36
Lab Chronicle	42
Certification Summary	49
Method Summary	50
Sample Summary	51
Chain of Custody	52
Receipt Checklists	55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, 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
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.
α	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: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1

Job ID: 880-44729-1

Eurofins Midland

Job Narrative
880-44729-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/13/2024 1:20 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 -7.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-44729-1), T-1 (1.5') (880-44729-2), T-1 (2') (880-44729-3), T-1 (3') (880-44729-4), T-1 (4') (880-44729-5), T-2 (0-1') (880-44729-6), T-2 (1.5') (880-44729-7), T-2 (2') (880-44729-8), T-2 (3') (880-44729-9), T-2 (4') (880-44729-10), T-3 (0-1') (880-44729-11), T-3 (1.5') (880-44729-12), T-3 (2') (880-44729-13), T-3 (3') (880-44729-14), T-3 (4') (880-44729-15), T-4 (0-1') (880-44729-16), T-4 (1.5') (880-44729-17), T-4 (2') (880-44729-18), T-4 (3') (880-44729-19), T-5 (0-1') (880-44729-20), T-5 (1.5') (880-44729-21), T-5 (2') (880-44729-22) and T-5 (3') (880-44729-23).

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: CCV was biased high for both the gasoline and diesel hydrocarbon ranges. Other bracketing verifications were acceptable within a 12 hour window; therefore, the data was qualified and reported.

(CCV 880-83189/30)

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-83154 and analytical batch 880-83278 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-3 (0-1') (880-44729-11), T-3 (1.5') (880-44729-12), T-3 (4') (880-44729-15), T-4 (1.5') (880-44729-17), T-4 (3') (880-44729-19), T-5 (0-1') (880-44729-20), (880-44729-A-11-F MS) and (880-44729-A-11-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83154 and analytical batch 880-83278 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 continuing calibration verification (CCV) associated with batch 880-83278 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 880-83278/47).

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 and precision for preparation batch 880-83148 and analytical batch 880-83203 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1

Job ID: 880-44729-1 (Continued) **Eurofins Midland**

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-H .0-H5

Lab Sample ID: 880-44721-H

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redei/ eo: 0c6-1v24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/13/24 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		30 - 170	06/17/24 17:76	06/17/24 22:18	1
1,4-Difluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/17/24 22:18	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/13/24 22:15	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 23:20	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		30 - 170	06/17/24 16:20	06/14/24 27:20	1
o-Terphenyl	90		30 - 170	06/17/24 16:20	06/14/24 27:20	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A- Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	v8c yH		24.9		mg/Kg			06/14/24 10:28	5

Client Sample ID: (-H .HNE5

Lab Sample ID: 880-44721-2

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redei/ eo: 0c6-1v24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/13/24 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/17/24 22:78	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/17/24 22:78	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-H .HNE5

Lab Sample ID: 880-44721-2

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/13/24 22:35	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.9	U	49.9		mg/Kg			06/14/24 23:37	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		30 - 170				06/17/24 16:20	06/14/24 27:73	1
o-Terphenyl	93		30 - 170				06/17/24 16:20	06/14/24 27:73	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMbe	Hv0		5.03		mg/Kg			06/14/24 10:46	1

Client Sample ID: (-H .25

Lab Sample ID: 880-44721-v

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMDanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		30 - 170				06/17/24 17:76	06/17/24 22:86	1
1,4-Difluorobenzene (Surr)	100		30 - 170				06/17/24 17:76	06/17/24 22:86	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/13/24 22:56	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 23:52	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-H .25

Lab Sample ID: 880-44721-v

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-14-24 Hr:20

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		30 - 170				06/17/24 16:20	06/14/24 27:82	1
o-Terphenyl	39		30 - 170				06/17/24 16:20	06/14/24 27:82	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	vE4		5.05		mg/Kg			06/14/24 10:52	1

Client Sample ID: (-H .v5

Lab Sample ID: 880-44721-4

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-14-24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		30 - 170				06/17/24 17:76	06/17/24 27:16	1
1,4-Difluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/17/24 27:16	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Caldulatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/13/24 23:16	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<50.0	U	50.0		mg/Kg			06/15/24 00:08	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		30 - 170				06/17/24 16:20	06/18/24 00:09	1
o-Terphenyl	90		30 - 170				06/17/24 16:20	06/18/24 00:09	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	c24		4.99		mg/Kg			06/14/24 11:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-H .45

Lab Sample ID: 880-44721-E

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/13/24 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/17/24 27:73	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/17/24 27:73	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Caldulatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/13/24 23:37	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.7	U	49.7		mg/Kg			06/15/24 00:24	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		30 - 170	06/17/24 16:20	06/18/24 00:24	1
o-Terphenyl	58		30 - 170	06/17/24 16:20	06/18/24 00:24	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A- Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	H2H0		4.96		mg/Kg			06/14/24 11:15	1

Client Sample ID: (-2 .0-H5

Lab Sample ID: 880-44721-c

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/13/24 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/17/24 27:83	1
1,4-Difluorobenzene (Surr)	100		30 - 170	06/17/24 17:76	06/17/24 27:83	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-2 .0-H5

Lab Sample ID: 880-44721-c

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redei/ eo: 0c6-1624 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/13/24 23:57	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
(xtal (z9	c2N		49.7		mg/Kg			06/15/24 09:42	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Diesel RanOe VMDanids .V/ eM CHO-C28'	c2N		49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		30 - 170				06/17/24 16:20	06/18/24 05:42	1
o-Terphenyl	102		30 - 170				06/17/24 16:20	06/18/24 05:42	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMbe	8480		50.2		mg/Kg			06/14/24 11:21	10

Client Sample ID: (-2 .HNE5

Lab Sample ID: 880-44721-7

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redei/ eo: 0c6-1624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMDanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 00:19	1
1,4-Difluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 00:19	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 00:18	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/15/24 09:56	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-2 .HNE5

Lab Sample ID: 880-44721-7

Date Cxlltedeo: 0c6h2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6h2624 Hr:20

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	53		30 - 170				06/17/24 16:20	06/18/24 05:86	1
o-Terphenyl	51		30 - 170				06/17/24 16:20	06/18/24 05:86	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	4E00		49.8		mg/Kg			06/14/24 11:27	10

Client Sample ID: (-2 .25

Lab Sample ID: 880-44721-8

Date Cxlltedeo: 0c6h2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6h2624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 00:79	1
1,4-Difluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 00:79	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 00:38	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/15/24 10:11	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		30 - 170				06/17/24 16:20	06/18/24 10:11	1
o-Terphenyl	39		30 - 170				06/17/24 16:20	06/18/24 10:11	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	H410		25.2		mg/Kg			06/14/24 11:33	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-2 .v5

Lab Sample ID: 880-44721-1

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v-24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 00:85	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 00:85	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 00:59	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.9	U	49.9		mg/Kg			06/15/24 10:26	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	55		30 - 170	06/17/24 16:20	06/18/24 10:26	1
o-Terphenyl	51		30 - 170	06/17/24 16:20	06/18/24 10:26	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A- Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	v2H		4.99		mg/Kg			06/14/24 11:39	1

Client Sample ID: (-2 .45

Lab Sample ID: 880-44721-H0

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v-24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/14/24 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 01:15	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 01:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-2 .45

Lab Sample ID: 880-44721-HD

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculation

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/14/24 01:19	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total TPH	<50.0	U	50.0		mg/Kg			06/15/24 10:41	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		30 - 170	06/17/24 16:20	06/18/24 10:41	1
o-Terphenyl	98		30 - 170	06/17/24 16:20	06/18/24 10:41	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
C3lxMbe	2200		25.0		mg/Kg			06/14/24 11:45	5

Client Sample ID: (-v .0-H5

Lab Sample ID: 880-44721-HH

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMDanid Cxmpxunos .g C'

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/14/24 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		30 - 170	06/17/24 17:76	06/14/24 02:42	1
1,4-Difluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 02:42	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculation

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/14/24 02:42	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 18:56	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualieM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-v .0-H5

Lab Sample ID: 880-44721-HH

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redei/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	30 - 170				06/17/24 16:28	06/13/24 19:86	1
o-Terphenyl	60	S1-	30 - 170				06/17/24 16:28	06/13/24 19:86	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	188		5.03		mg/Kg			06/14/24 09:26	1

Client Sample ID: (-v .HNE5

Lab Sample ID: 880-44721-H2

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redei/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170				06/17/24 17:76	06/14/24 07:07	1
1,4-Difluorobenzene (Surr)	100		30 - 170				06/17/24 17:76	06/14/24 07:07	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 03:03	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 19:49	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	38		30 - 170				06/17/24 16:28	06/13/24 15:45	1
o-Terphenyl	66	S1-	30 - 170				06/17/24 16:28	06/13/24 15:45	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	vvv0		25.3		mg/Kg			06/14/24 09:41	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-v .25

Lab Sample ID: 880-44721-Hv

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v24 Hv:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		30 - 170	06/17/24 17:76	06/14/24 07:27	1
1,4-Difluorobenzene (Surr)	107		30 - 170	06/17/24 17:76	06/14/24 07:27	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 03:23	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 20:06	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		30 - 170	06/17/24 16:28	06/13/24 20:06	1
o-Terphenyl	32		30 - 170	06/17/24 16:28	06/13/24 20:06	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A- Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	c1E0		50.3		mg/Kg			06/14/24 09:46	10

Client Sample ID: (-v .v5

Lab Sample ID: 880-44721-Hv

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v24 Hv:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/14/24 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 07:47	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 07:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-v .v5

Lab Sample ID: 880-44721-H4

Date Cxlltedeo: 0c642624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c642624 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/14/24 03:43	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 20:23	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		30 - 170				06/17/24 16:28	06/13/24 20:27	1
o-Terphenyl	36		30 - 170				06/17/24 16:28	06/13/24 20:27	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMbe	2v20		25.0		mg/Kg			06/14/24 09:51	5

Client Sample ID: (-v .45

Lab Sample ID: 880-44721-HE

Date Cxlltedeo: 0c642624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c642624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMDanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170				06/17/24 17:76	06/14/24 04:04	1
1,4-Difluorobenzene (Surr)	100		30 - 170				06/17/24 17:76	06/14/24 04:04	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 04:04	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 20:40	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-v .45

Lab Sample ID: 880-44721-HE

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-12-24 Hr:20

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	32		30 - 170				06/17/24 16:28	06/13/24 20:40	1
o-Terphenyl	66	S1-	30 - 170				06/17/24 16:28	06/13/24 20:40	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	vEH0		24.9		mg/Kg			06/14/24 09:56	5

Client Sample ID: (-4 .0-H5

Lab Sample ID: 880-44721-Hc

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-12-24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 04:24	1
1,4-Difluorobenzene (Surr)	102		30 - 170				06/17/24 17:76	06/14/24 04:24	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/14/24 04:24	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 20:57	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	39		30 - 170				06/17/24 16:28	06/13/24 20:83	1
o-Terphenyl	32		30 - 170				06/17/24 16:28	06/13/24 20:83	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	Ec7		5.04		mg/Kg			06/14/24 10:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-4 .HNE5

Lab Sample ID: 880-44721-H7

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/14/24 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 04:48	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 04:48	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 04:45	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 21:14	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	36		30 - 170	06/17/24 16:28	06/13/24 21:14	1
o-Terphenyl	66	S1-	30 - 170	06/17/24 16:28	06/13/24 21:14	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	H4H		5.05		mg/Kg			06/14/24 10:16	1

Client Sample ID: (-4 .25

Lab Sample ID: 880-44721-H8

Date Cxlltedeo: 0c6-2624 00:00

) atNr: Sxlio

Date Redeil/ eo: 0c6-1v24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 08:08	1
1,4-Difluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 08:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-4 .25

Lab Sample ID: 880-44721-HB

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 05:05	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Total TPH	<49.6	U	49.6		mg/Kg			06/17/24 21:31	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		30 - 170	06/17/24 16:28	06/13/24 21:71	1
o-Terphenyl	37		30 - 170	06/17/24 16:28	06/13/24 21:71	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
C3lxMbe	vH0		5.02		mg/Kg			06/14/24 10:21	1

Client Sample ID: (-4 .v5

Lab Sample ID: 880-44721-HI

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 08:26	1
1,4-Difluorobenzene (Surr)	102		30 - 170	06/17/24 17:76	06/14/24 08:26	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 05:26	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 21:47	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z Mpamo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-4 .v5

Lab Sample ID: 880-44721-H1

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-12-24 Hr:20

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	30		30 - 170	06/17/24 16:28	06/13/24 21:43	1
o-Terphenyl	62	S1-	30 - 170	06/17/24 16:28	06/13/24 21:43	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
C3lxMoe	4E1		4.95		mg/Kg			06/14/24 10:26	1

Client Sample ID: (-E .0-H5

Lab Sample ID: 880-44721-20

Date Cxlltedeo: 0c6-12-24 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-12-24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 08:46	1
1,4-Difluorobenzene (Surr)	101		30 - 170	06/17/24 17:76	06/14/24 08:46	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 05:46	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 22:04	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	30		30 - 170	06/17/24 16:28	06/13/24 22:04	1
o-Terphenyl	61	S1-	30 - 170	06/17/24 16:28	06/13/24 22:04	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapaMo	GnalAFeo	Dil yad
C3lxMoe	EH7		4.96		mg/Kg			06/14/24 10:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-E .HNE5

Lab Sample ID: 880-44721-2H

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:46	06/14/24 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		30 - 170	06/17/24 17:46	06/14/24 08:79	1
1,4-Difluorobenzene (Surr)	58		30 - 170	06/17/24 17:46	06/14/24 08:79	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calduatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 05:38	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 22:37	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMdanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	34		30 - 170	06/17/24 16:28	06/13/24 22:73	1
o-Terphenyl	68	S1-	30 - 170	06/17/24 16:28	06/13/24 22:73	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMP3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	2280		25.0		mg/Kg			06/14/24 10:36	5

Client Sample ID: (-E .25

Lab Sample ID: 880-44721-22

Date Cxlltedeo: 0c6-2624 00:00

) atMr: Sxlio

Date Redeil/ eo: 0c6-1v624 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMdanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:46	06/14/24 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		30 - 170	06/17/24 17:46	06/14/24 08:85	1
1,4-Difluorobenzene (Surr)	56		30 - 170	06/17/24 17:46	06/14/24 08:85	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-E .25

Lab Sample ID: 880-44721-22

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 05:59	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 22:54	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		30 - 170	06/17/24 16:28	06/13/24 22:84	1
o-Terphenyl	30		30 - 170	06/17/24 16:28	06/13/24 22:84	1

) et3xo: f zG v00M - Gnixns, lxn C3MmatxOMp3A - Sxliube

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
C3lxMbe	2Ev0		25.2		mg/Kg			06/14/24 10:51	5

Client Sample ID: (-E .v5

Lab Sample ID: 880-44721-2v

Date Collected: 06/14/24 00:00

) at Mr: Sxlio

Date Received: 06/14/24 Hr:20

) et3xo: Sh 84c 802HW- Bxlatile VMDanid Cxmpxunos .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:46	06/14/24 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		30 - 170	06/17/24 17:46	06/14/24 06:15	1
1,4-Difluorobenzene (Surr)	56		30 - 170	06/17/24 17:46	06/14/24 06:15	1

) et3xo: (GL SVz (xtal W f T - (xtal W f T Calculatixn

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 06:19	1

) et3xo: Sh 84c 80HEX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 23:10	1

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMDanids .DRV' .g C'

GnalAte	Result	UualiqeM	RL	) DL	Pnit	D	z MpaMo	GnalAFeo	Dil yad
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: (-E .v5
Date Cxlltedeo: 0c6-1v24 00:00
Date Redei/ eo: 0c6-1v24 Hr:20

Lab Sample ID: 880-44721-2v
) atMr: Sxlio

) et3xo: Sh 84c 80HEWX) - Diesel RanOe VMOnids .DRV' .g C' .Cxntinueo'

GnalAte	Result	UualioeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		30 - 170
o-Terphenyl	32		30 - 170

Prepared	Analyzed	Dil Fac
06/17/24 16:28	06/13/24 27:10	1
06/17/24 16:28	06/13/24 27:10	1

) et3xo: f zG v00N - Gnixns, lxn C3MmatxOMp3A - Sxluble

GnalAte	Result	UualioeM	RL	) DL	Pnit	D	z MpapMo	GnalAFeo	Dil yad
C3lxMoe	14H		5.05		mg/Kg			06/14/24 10:56	1

Surrogate Summary

Initial Results
Job ID: 880-44721-C
GDL: ynr l oct q NMP

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)
880-44721-C	(-C .0-C5	004	002
880-44721-CPG	(-C .0-C5	002	11
880-44721-CPGD	(-C .0-C5	002	11
880-44721-2	(-C .095	00C	00C
880-44721-W	(-C .25	000	000
880-44721-4	(-C .V6	00W	002
880-44721-9	(-C .45	002	00C
880-44721-6	(-2 .0-C5	00C	000
880-44721-7	(-2 .095	002	002
880-44721-8	(-2 .25	002	002
880-44721-1	(-2 .V6	002	00C
880-44721-C0	(-2 .45	002	00C
880-44721-CC	(-W .0-C5	00W	002
880-44721-C2	(-W .095	00C	000
880-44721-QV	(-W .25	00W	00W
880-44721-C4	(-W .V6	002	00C
880-44721-C9	(-W .45	00C	000
880-44721-C6	(-4 .0-C5	002	002
880-44721-C7	(-4 .095	00C	00C
880-44721-C8	(-4 .25	002	002
880-44721-C1	(-4 .V6	002	002
880-44721-20	(-9 .0-C5	00C	00C
880-44721-2C	(-9 .095	008	19
880-44721-22	(-9 .25	007	16
880-44721-2W	(-9 .V6	006	16
810-68V0-A-4Cp P G	Præof kirt d	007	00C
810-68V0-A-4C3 P GD	Præof kirt d	006	002
yl G 880-8V007FC-A	yr b l ot æi Gr Rhin	006	00W
yl G 880-8V001FC-A	yr b l ot æi Gr Rhin	00C	11
yl GD 880-8V007F2-A	yr b l ot æi Gr Rhin Dch	009	00C
yl GD 880-8V001F2-A	yr b l ot æi Gr Rhin Dch	000	11
P k 880-8211C9-A	Pnæof kirt d	001	14
P k 880-8V004F9-A	Pnæof kirt d	11	18
P k 880-8V007F9-A	Pnæof kirt d	008	1W
P k 880-8V001F9-A	Pnæof kirt d	11	11
Surrogate Legend			
k 3k z 4-k ræRoæcomæbnt Ent n .Gærh			
D3k x z 04-Dææcomæbnt Ent n .Gærh			

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)
880-44721-C	(-C .0-C5	88	80
880-44721-2	(-C .095	87	87
880-44721-W	(-C .25	84	78
880-44721-4	(-C .V6	81	80

pcæææ u P æ i r t f

Surrogate Summary

Int al r r R o t r s n u o c r n u
j m / n S a C a n : I o i c R b c u 3 n n 2 W 2 4 G H D y e n

Job ID: 880-44721-C
GDL : ynr l o c t a NMP

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)
880-44721-9	(-C .45	002	19
880-44721-6	(-2 .0-C5	006	002
880-44721-7	(-2 .C)95	17	1C
880-44721-8	(-2 .25	8W	78
880-44721-1	(-2 .V6	11	1C
880-44721-C0	(-2 .45	88	89
880-44721-CC	(-W .0-C5	67 GC-	60 GC-
880-44721-CC P G	(-W .0-C5	80	69 GC-
880-44721-CC P GD	(-W .0-C5	8C	69 GC-
880-44721-C2	(-W .C)95	79	66 GC-
880-44721-CW	(-W .25	80	72
880-44721-C4	(-W .V6	89	76
880-44721-C9	(-W .45	72	66 GC-
880-44721-C6	(-4 .0-C5	78	72
880-44721-C7	(-4 .C)95	76	66 GC-
880-44721-C8	(-4 .25	84	7W
880-44721-C1	(-4 .V6	70	62 GC-
880-44721-20	(-9 .0-C5	70	6C GC-
880-44721-2C	(-9 .C)95	74	69 GC-
880-44721-22	(-9 .25	80	70
880-44721-2W	(-9 .V6	82	72
810-68W0-A-67-p P G	P r a t B G h e l n	004	12
810-68W0-A-67-3 P GD	P r a t B G h e l n D c h i e r a n	00W	10
yl G 880-8W09W2-A	y r b l o t a n i G r R h i n	006	86
yl G 880-8W094F2-A	y r b l o t a n i G r R h i n	00C	1W
yl GD 880-8W09WFWA	y r b l o t a n i G r R h i n D c h	000	87
yl GD 880-8W094FWA	y r b l o t a n i G r R h i n D c h	84	78
P k 880-8W09WFA	P n a o f k i r t d	1W	89
P k 880-8W094FA	P n a o f k i r t d	71	68 GC-

Surrogate Legend

Q O z C l = i o r o S a t n
O (j T z o - (n r h = n t , i

pcmZ u P e i r t f

QC Sample Results

Initial Results
Job ID: 880-44721-C
Sample Name: I oicRbcu 3nn 2W24 GB D y e n

Job ID: 880-44721-C
GDL : ynr l oct a NMP

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82991/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83056							Prep Batch: 82991		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
z nt <nt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
Eoicnt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
h aK ibnt <nt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
R-&, int n p 9-&, int n	. 000400	g	000400		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
o-&, int n	. 000200	g	000200		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
&, int nuNEo a i	. 000400	g	000400		RKf6 K		05FC2F24 C2:05	05FCVW24 CC:CT	C
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 160				0/ 21: 2 4 1: 80/	0/ 2162 4 118/	1
1D-i fluorobenzene (Surr)	34		70 - 160				0/ 21: 2 4 1: 80/	0/ 2162 4 118/	1

Lab Sample ID: MB 880-83004/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83054							Prep Batch: 83004		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
z nt <nt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
Eoicnt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
h aK ibnt <nt n	. 000200	g	000200		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
R-&, int n p 9-&, int n	. 000400	g	000400		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
o-&, int n	. 000200	g	000200		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
&, int nuNEo a i	. 000400	g	000400		RKf6 K		05FC2F24 C2:V7	05FCVW24 CC:00	C
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	33		70 - 160				0/ 21: 2 4 1: 867	0/ 2162 4 118/0	1
1D-i fluorobenzene (Surr)	3h		70 - 160				0/ 21: 2 4 1: 867	0/ 2162 4 118/0	1

Lab Sample ID: MB 880-83107/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83056							Prep Batch: 83107		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
z nt <nt n	. 000200	g	000200		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
Eoicnt n	. 000200	g	000200		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
h aK ibnt <nt n	. 000200	g	000200		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
R-&, int n p 9-&, int n	. 000400	g	000400		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
o-&, int n	. 000200	g	000200		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
&, int nuNEo a i	. 000400	g	000400		RKf6 K		05FCVW24 CC:45	05FCVW24 22:C5	C
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10h		70 - 160				0/ 2162 4 118/	0/ 2162 4 : : 8/	1
1D-i fluorobenzene (Surr)	36		70 - 160				0/ 2162 4 118/	0/ 2162 4 : : 8/	1

QC Sample Results

Initial Results
Sample: 101Rbcu 3nn 2W24 GB D y e n

Job ID: 880-44721-C
GDL: ynr 1 oct q NMP

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

Lab Sample ID: LCS 880-83107/1-A
Matrix: Solid
Analysis Batch: 83056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83107

Analyte	Spike			LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result	Qualifier				Limits	
z nt <nt n	0.000	0.0205				RKFK		C2C	70 - C/V	
Eoicnt n	0.000	0.0074				RKFK		C07	70 - C/V	
hX, ibnt <nt n	0.000	0.0011				RKFK		C05	70 - C/V	
R- &, int n p 9- &, int n	0.200	0.2087				RKFK		C01	70 - C/V	
o- &, int n	0.000	0.000C				RKFK		C00	70 - C/V	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	10/		70 - 160							
1,2,4-Trifluorobenzene (Surr)	106		70 - 160							

Lab Sample ID: LCSD 880-83107/2-A
Matrix: Solid
Analysis Batch: 83056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83107

Analyte	Spike			LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier	Result	Qualifier				Limits		RPD	Limit
z nt <nt n	0.000	0.0008				RKFK		C04	70 - C/V	5	WT	
Eoicnt n	0.000	0.0007				RKFK		C0C	70 - C/V	5	WT	
hX, ibnt <nt n	0.000	0.0004				RKFK		C00	70 - C/V	1	WT	
R- &, int n p 9- &, int n	0.200	0.2054				RKFK		C0W	70 - C/V	5	WT	
o- &, int n	0.000	0.0007				RKFK		C0W	70 - C/V	5	WT	
		LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	10/		70 - 160									
1,2,4-Trifluorobenzene (Surr)	101		70 - 160									

Lab Sample ID: 890-6835-A-41-E MS
Matrix: Solid
Analysis Batch: 83056

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 83107

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
z nt <nt n	. 0.000C11	g	0.000	0.0000		RKFK		C0W	70 - C/V	
Eoicnt n	. 0.000C11	g	0.000	0.01802		RKFK		18	70 - C/V	
hX, ibnt <nt n	. 0.000C11	g	0.000	0.01254		RKFK		12	70 - C/V	
R- &, int n p 9- &, int n	. 0.000M8	g	0.200	0.00887		RKFK		14	70 - C/V	
o- &, int n	. 0.000C11	g	0.000	0.01211		RKFK		1W	70 - C/V	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	107		70 - 160							
1,2,4-Trifluorobenzene (Surr)	101		70 - 160							

Lab Sample ID: 890-6835-A-41-F MSD
Matrix: Solid
Analysis Batch: 83056

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 83107

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
z nt <nt n	. 0.000C11	g	0.0118	0.0007		RKFK		C02	70 - C/V	C	WT	
Eoicnt n	. 0.000C11	g	0.0118	0.0117C2		RKFK		1T	70 - C/V	W	WT	
hX, ibnt <nt n	. 0.000C11	g	0.0118	0.0087M		RKFK		88	70 - C/V	5	WT	

hcmof u P e d i r t d

QC Sample Results

Initial Results
j m/n S/G: I oicRbcu 3nn 2W24 GB D y e n

Job ID: 880-44721-C
GDL : ynr I oct a NMP

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

Lab Sample ID: 890-6835-A-41-F MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 83056						Prep Batch: 83107					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
R-&, int n p 9-&, int n	. 000V8	g	00200	007TT		RK6K		88	70 - 0V0	7	VT
o-&, int n	. 000C11	g	00118	008581		RK6K		87	70 - 0V0	7	VT
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	10/		70 - 160								
1,4-Difluorobenzene (Surr)	10/		70 - 160								

Lab Sample ID: MB 880-83119/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 83054							Prep Batch: 83119		
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
z nt <nt n	. 000200	g	000200		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
Eoicnt n	. 000200	g	000200		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
h aX ibnt <nt n	. 000200	g	000200		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
R-&, int n p 9-&, int n	. 000400	g	000400		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
o-&, int n	. 000200	g	000200		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
&, int nuNEo: i	. 000400	g	000400		RK6 K		05FCV24 0VW5	05FCV24 2C.TW	C
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	33		70 - 160				0/ 2162 4 : 166/	0/ 2162 4 : 18 6	1
1,4-Difluorobenzene (Surr)	33		70 - 160				0/ 2162 4 : 166/	0/ 2162 4 : 18 6	1

Lab Sample ID: LCS 880-83119/1-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 83054					Prep Batch: 83119				
				Spike	LCS				
Analyte				Added	Result	Qualifier	Unit	D	%Rec
z nt <nt n				0000	00080		RK6K		008
Eoicnt n				0000	00042		RK6K		004
h aX ibnt <nt n				0000	00024		RK6K		002
R-&, int n p 9-&, int n				00200	002CT4		RK6K		008
o-&, int n				0000	0007C		RK6K		007
				LCS	LCS				
Surrogate		%Recovery		Qualifier	Limits				
4-Bromofluorobenzene (Surr)		101			70 - 160				
1,4-Difluorobenzene (Surr)		33			70 - 160				

Lab Sample ID: LCSD 880-83119/2-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 83054						Prep Batch: 83119					
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
z nt <nt n	0000	0000C		RK6K		000	70 - 0V0	2	VT		
Eoicnt n	0000	00055		RK6K		007	70 - 0V0	2	VT		
h aX ibnt <nt n	0000	00041		RK6K		00T	70 - 0V0	2	VT		
R-&, int n p 9-&, int n	00200	002C5		RK6K		00C	70 - 0V0	W	VT		
o-&, int n	0000	00015		RK6K		000	70 - 0V0	2	VT		

h cmof u P e d i r t d

QC Sample Results

Initial Results
Job ID: 880-44721-C
GDL: ynr l oct a NMP

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

LCSD		LCSD		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	100		70 - 160	
1,2-Dichlorobenzene (Surr)	33		70 - 160	

Lab Sample ID: 880-44729-1 MS
Matrix: Solid
Analysis Batch: 83054

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 83119

Sample		Sample	Spike	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
z nt <nt n	. 000C18	g	00115	000V1		RKFK		004	70 - 0V0
Eicnt n	. 000C18	g	00115	001118		RKFK		000	70 - 0V0
h&K ibnt <nt n	. 000C18	g	00115	001774		RKFK		18	70 - 0V0
R-&, int n p 9-&, int n	. 000V15	g	0011	02054		RKFK		004	70 - 0V0
o-&, int n	. 000C18	g	00115	000C7		RKFK		002	70 - 0V0

MS		MS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	10:		70 - 160	
1,2-Dichlorobenzene (Surr)	33		70 - 160	

Lab Sample ID: 880-44729-1 MSD
Matrix: Solid
Analysis Batch: 83054

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 83119

Sample		Sample	Spike	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
z nt <nt n	. 000C18	g	000C	0004T		RKFK		004	70 - 0V0	C	V1
Eicnt n	. 000C18	g	000C	00007		RKFK		000	70 - 0V0	C	V1
h&K ibnt <nt n	. 000C18	g	000C	0018T0		RKFK		18	70 - 0V0	C	V1
R-&, int n p 9-&, int n	. 000V15	g	0202	0208C		RKFK		00V	70 - 0V0	C	V1
o-&, int n	. 000C18	g	000C	00027		RKFK		002	70 - 0V0	C	V1

MSD		MSD		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	10:		70 - 160	
1,2-Dichlorobenzene (Surr)	33		70 - 160	

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

Lab Sample ID: MB 880-83153/1-A
Matrix: Solid
Analysis Batch: 83189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83153

MB		MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lruoi& n s r t Kn OrKrt &u (L s O)-l 5-l 00	. T0W	g	T0W		RKFK		05FCW24 C5:20	05FC4F24 C1:08		C
D&uni s r t Kn OrKrt &u (Ovnm l 00-l 28)	. T0W	g	T0W		RKFK		05FCW24 C5:20	05FC4F24 C1:08		C
O&s r t Kn OrKrt &u (Ovnm 28-l V6)	. T0W	g	T0W		RKFK		05FCW24 C5:20	05FC4F24 C1:08		C

MB		MB								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
1-c t l o r o o a 9 l n e	36		70 - 160		0/ 2162 4 1/ 8 0	0/ 2142 4 13&h				1
o-p e r y t e n 5 l	h,		70 - 160		0/ 2162 4 1/ 8 0	0/ 2142 4 13&h				1

QC Sample Results

Initial Results
Sample: 101Rbcu 3nn 2W24 GB D y e n

Job ID: 880-44721-C
GDL : ynr l o c t a NMP

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

Lab Sample ID: LCS 880-83153/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 83189				Prep Batch: 83153			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lruoi e n s r t Kn Orkrt e u (L s O)-l 5-l O	000	1V1U		RKFK		14	70 - 0/0
D e u n i s r t Kn Orkrt e u (Ovnm l O-l 28)	000	85V8		RKFK		85	70 - 0/0
		LCS %Recovery	LCS Qualifier	Limits			
Surrogate							
1-c t l o r o o a g l n e		10/		70 - 160			
o-p e r y t e n 5 l		h/		70 - 160			

Lab Sample ID: LCSD 880-83153/3-A				Client Sample ID: Lab Control Sample Dup			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 83189				Prep Batch: 83153			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits
Lruoi e n s r t Kn Orkrt e u (L s O)-l 5-l O	000	151UV		RKFK		17	70 - 0/0
D e u n i s r t Kn Orkrt e u (Ovnm l O-l 28)	000	1C5UV		RKFK		12	70 - 0/0
		LCSD %Recovery	LCSD Qualifier	Limits			
Surrogate							
1-c t l o r o o a g l n e		110		70 - 160			
o-p e r y t e n 5 l		h7		70 - 160			

Lab Sample ID: 890-6830-A-67-E MS				Client Sample ID: Matrix Spike			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 83189				Prep Batch: 83153			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	%Rec
Lruoi e n s r t Kn Orkrt e u (L s O)-l 5-l O	. 41U	g	111	701U		RKFK	7C
D e u n i s r t Kn Orkrt e u (Ovnm l O-l 28)	. 41U	g	111	720U		RKFK	72
		MS %Recovery	MS Qualifier	Limits			
Surrogate							
1-c t l o r o o a g l n e		104		70 - 160			
o-p e r y t e n 5 l		3:		70 - 160			

Lab Sample ID: 890-6830-A-67-F MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 83189				Prep Batch: 83153			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	%Rec
Lruoi e n s r t Kn Orkrt e u (L s O)-l 5-l O	. 41U	g	111	7T5U		RKFK	75
D e u n i s r t Kn Orkrt e u (Ovnm l O-l 28)	. 41U	g	111	70T2		RKFK	7C
		MSD %Recovery	MSD Qualifier	Limits			
Surrogate							
1-c t l o r o o a g l n e		106		70 - 160			

h c r o f e u P e d i r t d

QC Sample Results

Initial Results
Sample ID: 880-83154-1-A

Job ID: 880-44721-C
GDL: ynr 1 oct a NMP

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

Lab Sample ID: 890-6830-A-67-F MSD
Matrix: Solid
Analysis Batch: 83189

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 83153

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-peryt en5l	30		70 - 160

Lab Sample ID: MB 880-83154/1-A
Matrix: Solid
Analysis Batch: 83278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lruoia n s r t Kn Orkr t au (L s O)-I 5-I O	. TOL	g	TOL		RKFK		05FCV24 C5:2T	05FC7F24 C8:04	C
Douni s r t Kn Orkr t au (Ovnm I O-I 28)	. TOL	g	TOL		RKFK		05FCV24 C5:2T	05FC7F24 C8:04	C
Oe s r t Kn Orkr t au (Ovnml 28-I V6)	. TOL	g	TOL		RKFK		05FCV24 C5:2T	05FC7F24 C8:04	C
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-c t l o r o o a 9 l n e	73		70 - 160				0/ 2162 4 1/ 8 ,	0/ 2172 4 1h04	1
o-peryt en5l	/ h S1-		70 - 160				0/ 2162 4 1/ 8 ,	0/ 2172 4 1h04	1

Lab Sample ID: LCS 880-83154/2-A
Matrix: Solid
Analysis Batch: 83278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lruoia n s r t Kn Orkr t au (L s O)-I 5-I O	0000	0045		RKFK		00T	70 - 0/0
Douni s r t Kn Orkr t au (Ovnm I O-I 28)	0000	1TW5		RKFK		1T	70 - 0/0
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-c t l o r o o a 9 l n e	101		70 - 160				
o-peryt en5l	36		70 - 160				

Lab Sample ID: LCSD 880-83154/3-A
Matrix: Solid
Analysis Batch: 83278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83154

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lruoia n s r t Kn Orkr t au (L s O)-I 5-I O	0000	8T7U		RKFK		85	70 - 0/0	20	20
Douni s r t Kn Orkr t au (Ovnm I O-I 28)	0000	712U		RKFK		71	70 - 0/0	C8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-c t l o r o o a 9 l n e	h4		70 - 160						
o-peryt en5l	7h		70 - 160						

hcmofe u P e l i r t d

QC Sample Results

Initial Results
Sample: 10180301 2W24 GB Dye

Job ID: 880-44721-C
GDL: ynr 1 oct 9 NMP

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

Lab Sample ID: 880-44729-11 MS
Matrix: Solid
Analysis Batch: 83278

Client Sample ID: T-3 (0-1')
Prep Type: Total/NA
Prep Batch: 83154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lr uoi n s r t Kn Or k r t e u (L s O)-I 5-I O	. T0W	g 3C	11T	527U	3C	RKFK		5W	70 - 0W
D u n i s r t Kn Or k r t e u (Ovnm I O-I 28)	. T0W	g 3C	11T	T4VW	3C	RKFK		TT	70 - 0W
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1-c t l o r o o a g l n e	h0		70 - 160						
o-p e r y t e n 5 l	/,	S1-	70 - 160						

Lab Sample ID: 880-44729-11 MSD
Matrix: Solid
Analysis Batch: 83278

Client Sample ID: T-3 (0-1')
Prep Type: Total/NA
Prep Batch: 83154

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lr uoi n s r t Kn Or k r t e u (L s O)-I 5-I O	. T0W	g 3C	11T	521U	3C	RKFK		5W	70 - 0W	0	20
D u n i s r t Kn Or k r t e u (Ovnm I O-I 28)	. T0W	g 3C	11T	TTQJ	3C	RKFK		TT	70 - 0W	2	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-c t l o r o o a g l n e	h1		70 - 160								
o-p e r y t e n 5 l	/,	S1-	70 - 160								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83148/1-A
Matrix: Solid
Analysis Batch: 83203

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
I X i o n a l n	. T0W	g	T0W		RKFK			05F04E24 08:47	C

Lab Sample ID: LCS 880-83148/2-A
Matrix: Solid
Analysis Batch: 83203

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
I X i o n a l n	2T0	248U		RKFK		000	10 - 000

Lab Sample ID: LCSD 880-83148/3-A
Matrix: Solid
Analysis Batch: 83203

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
I X i o n a l n	2T0	241U		RKFK		000	10 - 000	0	20

QC Sample Results

Intal rRr s nuocrn
j m/nSfGan: I oicRbcu 3nn 2W24 GB D y e n

Job ID: 880-44721-C
GDL : ynr I oct a NMP

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-44729-1 MS											Client Sample ID: T-1 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83203													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
I Xionatn	V85	3C	C240	C750	3C	RKFK		000	10 - 000				
Lab Sample ID: 880-44729-1 MSD											Client Sample ID: T-1 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83203													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
I Xionatn	V85	3C	C240	C728		RKFK		008	10 - 000	2	20		
Lab Sample ID: MB 880-83149/1-A											Client Sample ID: Method Blank		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
I Xionatn	. T00	g	T00		RKFK			05FC4F24 01:00	C				
Lab Sample ID: LCS 880-83149/2-A											Client Sample ID: Lab Control Sample		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
I Xionatn			2T0	2480		RKFK		11	10 - 000				
Lab Sample ID: LCSD 880-83149/3-A											Client Sample ID: Lab Control Sample Dup		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
I Xionatn			2T0	2450		RKFK		18	10 - 000	C	20		
Lab Sample ID: 880-44729-11 MS											Client Sample ID: T-3 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
I Xionatn	188		2T2	C20W		RKFK		10	10 - 000				
Lab Sample ID: 880-44729-11 MSD											Client Sample ID: T-3 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
I Xionatn	188		2T2	C2C5		RKFK		1C	10 - 000	0	20		
Lab Sample ID: 880-44729-21 MS											Client Sample ID: T-5 (1.5')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 83205													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
I Xionatn	2280		C2T0	W87		RKFK		00T	10 - 000				

hcmof u P airt d

QC Sample Results

Client: Rotor s nuocru
Job ID: 880-44721-C
Sample: I oicRbcu 3nn 2W24 GB D ye n
GDL : ynr l oct q NMP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-44729-21 MSD						Client Sample ID: T-5 (1.5')					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 83205											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
I Xionan	2280		C2T0	W10		RK6K		00T	10 - 000	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA

Prep Batch: 82991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-82991/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 83004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-83004/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 83054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8021B	83119
880-44729-2	T-1 (1.5')	Total/NA	Solid	8021B	83119
880-44729-3	T-1 (2')	Total/NA	Solid	8021B	83119
880-44729-4	T-1 (3')	Total/NA	Solid	8021B	83119
880-44729-5	T-1 (4')	Total/NA	Solid	8021B	83119
880-44729-6	T-2 (0-1')	Total/NA	Solid	8021B	83119
880-44729-7	T-2 (1.5')	Total/NA	Solid	8021B	83119
880-44729-8	T-2 (2')	Total/NA	Solid	8021B	83119
880-44729-9	T-2 (3')	Total/NA	Solid	8021B	83119
880-44729-10	T-2 (4')	Total/NA	Solid	8021B	83119
880-44729-11	T-3 (0-1')	Total/NA	Solid	8021B	83119
880-44729-12	T-3 (1.5')	Total/NA	Solid	8021B	83119
880-44729-13	T-3 (2')	Total/NA	Solid	8021B	83119
880-44729-14	T-3 (3')	Total/NA	Solid	8021B	83119
880-44729-15	T-3 (4')	Total/NA	Solid	8021B	83119
880-44729-16	T-4 (0-1')	Total/NA	Solid	8021B	83119
880-44729-17	T-4 (1.5')	Total/NA	Solid	8021B	83119
880-44729-18	T-4 (2')	Total/NA	Solid	8021B	83119
880-44729-19	T-4 (3')	Total/NA	Solid	8021B	83119
880-44729-20	T-5 (0-1')	Total/NA	Solid	8021B	83119
MB 880-83004/5-A	Method Blank	Total/NA	Solid	8021B	83004
MB 880-83119/5-A	Method Blank	Total/NA	Solid	8021B	83119
LCS 880-83119/1-A	Lab Control Sample	Total/NA	Solid	8021B	83119
LCSD 880-83119/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83119
880-44729-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	83119
880-44729-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	83119

Analysis Batch: 83056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-21	T-5 (1.5')	Total/NA	Solid	8021B	83107
880-44729-22	T-5 (2')	Total/NA	Solid	8021B	83107
880-44729-23	T-5 (3')	Total/NA	Solid	8021B	83107
MB 880-82991/5-A	Method Blank	Total/NA	Solid	8021B	82991
MB 880-83107/5-A	Method Blank	Total/NA	Solid	8021B	83107
LCS 880-83107/1-A	Lab Control Sample	Total/NA	Solid	8021B	83107
LCSD 880-83107/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83107
890-6835-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	83107
890-6835-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	83107

Prep Batch: 83107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-21	T-5 (1.5')	Total/NA	Solid	5035	
880-44729-22	T-5 (2')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 83107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-23	T-5 (3')	Total/NA	Solid	5035	
MB 880-83107/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83107/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83107/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6835-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
890-6835-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 83119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	5035	
880-44729-2	T-1 (1.5')	Total/NA	Solid	5035	
880-44729-3	T-1 (2')	Total/NA	Solid	5035	
880-44729-4	T-1 (3')	Total/NA	Solid	5035	
880-44729-5	T-1 (4')	Total/NA	Solid	5035	
880-44729-6	T-2 (0-1')	Total/NA	Solid	5035	
880-44729-7	T-2 (1.5')	Total/NA	Solid	5035	
880-44729-8	T-2 (2')	Total/NA	Solid	5035	
880-44729-9	T-2 (3')	Total/NA	Solid	5035	
880-44729-10	T-2 (4')	Total/NA	Solid	5035	
880-44729-11	T-3 (0-1')	Total/NA	Solid	5035	
880-44729-12	T-3 (1.5')	Total/NA	Solid	5035	
880-44729-13	T-3 (2')	Total/NA	Solid	5035	
880-44729-14	T-3 (3')	Total/NA	Solid	5035	
880-44729-15	T-3 (4')	Total/NA	Solid	5035	
880-44729-16	T-4 (0-1')	Total/NA	Solid	5035	
880-44729-17	T-4 (1.5')	Total/NA	Solid	5035	
880-44729-18	T-4 (2')	Total/NA	Solid	5035	
880-44729-19	T-4 (3')	Total/NA	Solid	5035	
880-44729-20	T-5 (0-1')	Total/NA	Solid	5035	
MB 880-83119/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83119/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83119/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44729-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-44729-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 83259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-44729-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-44729-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-44729-6	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-7	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-8	T-2 (2')	Total/NA	Solid	Total BTEX	
880-44729-9	T-2 (3')	Total/NA	Solid	Total BTEX	
880-44729-10	T-2 (4')	Total/NA	Solid	Total BTEX	
880-44729-11	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-12	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-13	T-3 (2')	Total/NA	Solid	Total BTEX	
880-44729-14	T-3 (3')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 83259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-15	T-3 (4')	Total/NA	Solid	Total BTEX	
880-44729-16	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-17	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-18	T-4 (2')	Total/NA	Solid	Total BTEX	
880-44729-19	T-4 (3')	Total/NA	Solid	Total BTEX	
880-44729-20	T-5 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-21	T-5 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-22	T-5 (2')	Total/NA	Solid	Total BTEX	
880-44729-23	T-5 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-44729-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-44729-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-8	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-44729-9	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-44729-10	T-2 (4')	Total/NA	Solid	8015NM Prep	
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 83154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-13	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-44729-14	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-44729-15	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-18	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-44729-19	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-22	T-5 (2')	Total/NA	Solid	8015NM Prep	
880-44729-23	T-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44729-11 MS	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-11 MSD	T-3 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 83189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015B NM	83153
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015B NM	83153
880-44729-3	T-1 (2')	Total/NA	Solid	8015B NM	83153
880-44729-4	T-1 (3')	Total/NA	Solid	8015B NM	83153
880-44729-5	T-1 (4')	Total/NA	Solid	8015B NM	83153
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015B NM	83153
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015B NM	83153
880-44729-8	T-2 (2')	Total/NA	Solid	8015B NM	83153
880-44729-9	T-2 (3')	Total/NA	Solid	8015B NM	83153
880-44729-10	T-2 (4')	Total/NA	Solid	8015B NM	83153
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015B NM	83153
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83153
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83153
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015B NM	83153
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83153

Analysis Batch: 83278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-13	T-3 (2')	Total/NA	Solid	8015B NM	83154
880-44729-14	T-3 (3')	Total/NA	Solid	8015B NM	83154
880-44729-15	T-3 (4')	Total/NA	Solid	8015B NM	83154
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-18	T-4 (2')	Total/NA	Solid	8015B NM	83154
880-44729-19	T-4 (3')	Total/NA	Solid	8015B NM	83154
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-22	T-5 (2')	Total/NA	Solid	8015B NM	83154
880-44729-23	T-5 (3')	Total/NA	Solid	8015B NM	83154
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015B NM	83154
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83154
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83154
880-44729-11 MS	T-3 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-11 MSD	T-3 (0-1')	Total/NA	Solid	8015B NM	83154

Analysis Batch: 83335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-44729-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-44729-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-44729-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-44729-8	T-2 (2')	Total/NA	Solid	8015 NM	
880-44729-9	T-2 (3')	Total/NA	Solid	8015 NM	
880-44729-10	T-2 (4')	Total/NA	Solid	8015 NM	
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 83335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-13	T-3 (2')	Total/NA	Solid	8015 NM	
880-44729-14	T-3 (3')	Total/NA	Solid	8015 NM	
880-44729-15	T-3 (4')	Total/NA	Solid	8015 NM	
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-44729-18	T-4 (2')	Total/NA	Solid	8015 NM	
880-44729-19	T-4 (3')	Total/NA	Solid	8015 NM	
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015 NM	
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015 NM	
880-44729-22	T-5 (2')	Total/NA	Solid	8015 NM	
880-44729-23	T-5 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-44729-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-44729-3	T-1 (2')	Soluble	Solid	DI Leach	
880-44729-4	T-1 (3')	Soluble	Solid	DI Leach	
880-44729-5	T-1 (4')	Soluble	Solid	DI Leach	
880-44729-6	T-2 (0-1')	Soluble	Solid	DI Leach	
880-44729-7	T-2 (1.5')	Soluble	Solid	DI Leach	
880-44729-8	T-2 (2')	Soluble	Solid	DI Leach	
880-44729-9	T-2 (3')	Soluble	Solid	DI Leach	
880-44729-10	T-2 (4')	Soluble	Solid	DI Leach	
MB 880-83148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44729-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-44729-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 83149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Soluble	Solid	DI Leach	
880-44729-12	T-3 (1.5')	Soluble	Solid	DI Leach	
880-44729-13	T-3 (2')	Soluble	Solid	DI Leach	
880-44729-14	T-3 (3')	Soluble	Solid	DI Leach	
880-44729-15	T-3 (4')	Soluble	Solid	DI Leach	
880-44729-16	T-4 (0-1')	Soluble	Solid	DI Leach	
880-44729-17	T-4 (1.5')	Soluble	Solid	DI Leach	
880-44729-18	T-4 (2')	Soluble	Solid	DI Leach	
880-44729-19	T-4 (3')	Soluble	Solid	DI Leach	
880-44729-20	T-5 (0-1')	Soluble	Solid	DI Leach	
880-44729-21	T-5 (1.5')	Soluble	Solid	DI Leach	
880-44729-22	T-5 (2')	Soluble	Solid	DI Leach	
880-44729-23	T-5 (3')	Soluble	Solid	DI Leach	
MB 880-83149/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83149/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83149/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44729-11 MS	T-3 (0-1')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 83149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11 MSD	T-3 (0-1')	Soluble	Solid	DI Leach	
880-44729-21 MS	T-5 (1.5')	Soluble	Solid	DI Leach	
880-44729-21 MSD	T-5 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 83203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Soluble	Solid	300.0	83148
880-44729-2	T-1 (1.5')	Soluble	Solid	300.0	83148
880-44729-3	T-1 (2')	Soluble	Solid	300.0	83148
880-44729-4	T-1 (3')	Soluble	Solid	300.0	83148
880-44729-5	T-1 (4')	Soluble	Solid	300.0	83148
880-44729-6	T-2 (0-1')	Soluble	Solid	300.0	83148
880-44729-7	T-2 (1.5')	Soluble	Solid	300.0	83148
880-44729-8	T-2 (2')	Soluble	Solid	300.0	83148
880-44729-9	T-2 (3')	Soluble	Solid	300.0	83148
880-44729-10	T-2 (4')	Soluble	Solid	300.0	83148
MB 880-83148/1-A	Method Blank	Soluble	Solid	300.0	83148
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	300.0	83148
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83148
880-44729-1 MS	T-1 (0-1')	Soluble	Solid	300.0	83148
880-44729-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	83148

Analysis Batch: 83205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-12	T-3 (1.5')	Soluble	Solid	300.0	83149
880-44729-13	T-3 (2')	Soluble	Solid	300.0	83149
880-44729-14	T-3 (3')	Soluble	Solid	300.0	83149
880-44729-15	T-3 (4')	Soluble	Solid	300.0	83149
880-44729-16	T-4 (0-1')	Soluble	Solid	300.0	83149
880-44729-17	T-4 (1.5')	Soluble	Solid	300.0	83149
880-44729-18	T-4 (2')	Soluble	Solid	300.0	83149
880-44729-19	T-4 (3')	Soluble	Solid	300.0	83149
880-44729-20	T-5 (0-1')	Soluble	Solid	300.0	83149
880-44729-21	T-5 (1.5')	Soluble	Solid	300.0	83149
880-44729-22	T-5 (2')	Soluble	Solid	300.0	83149
880-44729-23	T-5 (3')	Soluble	Solid	300.0	83149
MB 880-83149/1-A	Method Blank	Soluble	Solid	300.0	83149
LCS 880-83149/2-A	Lab Control Sample	Soluble	Solid	300.0	83149
LCSD 880-83149/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83149
880-44729-11 MS	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-11 MSD	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-21 MS	T-5 (1.5')	Soluble	Solid	300.0	83149
880-44729-21 MSD	T-5 (1.5')	Soluble	Solid	300.0	83149

Eurofins Midland

Lab Chronicle

Client: Carmona Resources

Job ID: 880-44721-P

Site: Columbus 3ee 2W24 FL D Gne

FDy : Gea Count, NMP

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

Lab Sample ID: 880-44729-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			EgEB	E mG	8VP1	0TSV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSV24 22:PE	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSV24 22:PE	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TS4S4 2W20	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g4 B	P0 mG	8VPEW	0TSV24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S4 2W20	. J	66A p ID
Foluble	Geach	DI Geach			E0WB	E0 mG	8VP48	0TSV24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00g		E	E0 mG	E0 mG	8V20W	0TS4S4 P0:28	CH	66A p ID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-44729-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl8 B	E mG	8VP1	0TSV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSV24 22:VE	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSV24 22:VE	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TS4S4 2WW7	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gWB	P0 mG	8VPEW	0TSV24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S4 2WW7	. J	66A p ID
Foluble	Geach	DI Geach			4gl7 B	E0 mG	8VP48	0TSV24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00g		P	E0 mG	E0 mG	8V20W	0TS4S4 P0:4T	CH	66A p ID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-44729-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl1 B	E mG	8VP1	0TSV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSV24 22:ET	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSV24 22:ET	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TS4S4 2WE2	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gEB	P0 mG	8VPEW	0TSV24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S4 2WE2	. J	66A p ID
Foluble	Geach	DI Geach			4glEB	E0 mG	8VP48	0TSV24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00g		P	E0 mG	E0 mG	8V20W	0TS4S4 P0:E2	CH	66A p ID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44729-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4glT B	E mG	8VP1	0TSV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSV24 2WPT	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSV24 2WPT	Fp	66A p ID

6urofins p idland

Lab Chronicle

Client: Carmona Resources
j ro/ectSite: Columbus 3ee 2W24 FL D Gne

Job ID: 880-44721-P
FDy : Gea Count, NMp

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44729-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TSPE24 00:08	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gPB	P0 mG	8VPEW	0TSPE24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TSPE24 00:08	. J	66A p ID
Foluble	Geach	DI Geach			EgPB	E0 mG	8VP48	0TSPE24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00gD		P	E0 mG	E0 mG	8V20W	0TS424 PP:01	CH	66A p ID

Client Sample ID: T-1 (4')

Lab Sample ID: 880-44729-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			EgPB	E mG	8VPP1	0TSPE24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSPE24 2WW7	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSPE24 2WW7	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TSPE24 00:24	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g7 B	P0 mG	8VPEW	0TSPE24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TSPE24 00:24	. J	66A p ID
Foluble	Geach	DI Geach			Eg4 B	E0 mG	8VP48	0TSPE24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00gD		P	E0 mG	E0 mG	8V20W	0TS424 PP:PE	CH	66A p ID

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

Lab Sample ID: 880-44729-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			Eg4 B	E mG	8VPP1	0TSPE24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSPE24 2WE7	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSPE24 2WE7	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TSPE24 01:42	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gT B	P0 mG	8VPEW	0TSPE24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TSPE24 01:42	. J	66A p ID
Foluble	Geach	DI Geach			4gl8 B	E0 mG	8VP48	0TSPE24 PE:P1	F.	66A p ID
Foluble	. nal, sis	V00gD		P0	E0 mG	E0 mG	8V20W	0TS424 PP:2P	CH	66A p ID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl7 B	E mG	8VPP1	0TSPE24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TS424 00:P8	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TS424 00:P8	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0TSPE24 01:ET	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gEB	P0 mG	8VPEW	0TSPE24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TSPE24 01:ET	. J	66A p ID

6uofins p idland

Lab Chronicle

Client: Carmona Resources

Job ID: 880-44721-P

j ro/ectSite: Columbus 3ee 2W24 FL D Gne

FDy : Gea Count, NMp

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Foluble	Geach	DI Geach			Eg2 B	E0 mG	8VP48	0TS4S24 PE:P1	F.	66A p ID
Foluble	. nal, sis	W00g		P0	E0 mG	E0 mG	8V20W	0TS4S24 PP:27	CH	66A p ID

Client Sample ID: T-2 (2')

Lab Sample ID: 880-44729-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl T B	E mG	8VFP1	0TS4S24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TS4S24 00:V8	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6 X		P			8V2E1	0TS4S24 00:V8	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TS4S24 P0:PP	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g4 B	P0 mG	8VPEW	0TS4S24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S24 P0:PP	. J	66A p ID
Foluble	Geach	DI Geach			4gl T B	E0 mG	8VP48	0TS4S24 PE:P1	F.	66A p ID
Foluble	. nal, sis	W00g		E	E0 mG	E0 mG	8V20W	0TS4S24 PP:VW	CH	66A p ID

Client Sample ID: T-2 (3')

Lab Sample ID: 880-44729-9

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			EgWB	E mG	8VFP1	0TS4S24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TS4S24 00:E1	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6 X		P			8V2E1	0TS4S24 00:E1	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TS4S24 P0:2T	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g2 B	P0 mG	8VPEW	0TS4S24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S24 P0:2T	. J	66A p ID
Foluble	Geach	DI Geach			EgP B	E0 mG	8VP48	0TS4S24 PE:P1	F.	66A p ID
Foluble	. nal, sis	W00g		P	E0 mG	E0 mG	8V20W	0TS4S24 PP:Vl	CH	66A p ID

Client Sample ID: T-2 (4')

Lab Sample ID: 880-44729-10

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			EgP B	E mG	8VFP1	0TS4S24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TS4S24 0P:P1	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6 X		P			8V2E1	0TS4S24 0P:P1	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TS4S24 P0:4P	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gP B	P0 mG	8VPEW	0TS4S24 PT:20	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8VP81	0TS4S24 P0:4P	. J	66A p ID
Foluble	Geach	DI Geach			Eg0 B	E0 mG	8VP48	0TS4S24 PE:P1	F.	66A p ID
Foluble	. nal, sis	W00g		E	E0 mG	E0 mG	8V20W	0TS4S24 PP:4E	CH	66A p ID

6uofins p idland

Lab Chronicle

Client: Carmona Resources
j ro/ectSite: Columbus 3ee 2W24 FL D Gne

Job ID: 880-44721-P
FDy : Gaa Count, NMp

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

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			Eg4 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S24 02:42	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S24 02:42	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S24 P8:ET	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gPB	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S24 P8:ET	Fp	66A p ID
Foluble	Geach	DI Geach			4gl 7 B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g		P	E0 mG	E0 mG	8V20E	0TSP4S24 01:2T	CH	66A p ID

Client Sample ID: T-3 (1.5')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl T B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S24 0W0W	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S24 0W0W	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S24 P1:41	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gPB	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S24 P1:41	Fp	66A p ID
Foluble	Geach	DI Geach			4gl E B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g		E	E0 mG	E0 mG	8V20E	0TSP4S24 01:4P	CH	66A p ID

Client Sample ID: T-3 (2')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl 8 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S24 0W2W	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S24 0W2W	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S24 20:0T	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gWB	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S24 20:0T	Fp	66A p ID
Foluble	Geach	DI Geach			4gl 7 B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g		P0	E0 mG	E0 mG	8V20E	0TSP4S24 01:4T	CH	66A p ID

Client Sample ID: T-3 (3')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl 1 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S24 0W4W	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S24 0W4W	Fp	66A p ID

6uofins p idland

Lab Chronicle

Client: Carmona Resources
j ro/ectSite: Columbus 3ee 2W24 FL D Gne

Job ID: 880-44721-P
FDy : Gea Count, NMP

Client Sample ID: T-3 (3')

Lab Sample ID: 880-44729-14

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	. nal, sis	80PE Mp		P			8VWE	0T\$7\$24 20:2W	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g4 B	P0 mG	8VPE4	0T\$V\$24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0T\$7\$24 20:2W	Fp	66A p ID
Foluble	Geach	DI Geach			Eg0P B	E0 mG	8VP41	0T\$V\$24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		E	E0 mG	E0 mG	8V20E	0T\$4\$24 01:EP	CH	66A p ID

Client Sample ID: T-3 (4')

Lab Sample ID: 880-44729-15

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			Eg02 B	E mG	8VFP1	0T\$V\$24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0T\$4\$24 04:04	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0T\$4\$24 04:04	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0T\$7\$24 20:40	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gT B	P0 mG	8VPE4	0T\$V\$24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0T\$7\$24 20:40	Fp	66A p ID
Foluble	Geach	DI Geach			Eg02 B	E0 mG	8VP41	0T\$V\$24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		E	E0 mG	E0 mG	8V20E	0T\$4\$24 01:ET	CH	66A p ID

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

Lab Sample ID: 880-44729-16

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			Eg0E B	E mG	8VFP1	0T\$V\$24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0T\$4\$24 04:24	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0T\$4\$24 04:24	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0T\$7\$24 20:E7	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g0E B	P0 mG	8VPE4	0T\$V\$24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0T\$7\$24 20:E7	Fp	66A p ID
Foluble	Geach	DI Geach			4glT B	E0 mG	8VP41	0T\$V\$24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		P	E0 mG	E0 mG	8V20E	0T\$4\$24 P0:PP	CH	66A p ID

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-44729-17

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			Eg00 B	E mG	8VFP1	0T\$V\$24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0T\$4\$24 04:4E	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0T\$4\$24 04:4E	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWE	0T\$7\$24 2P:P4	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g0P B	P0 mG	8VPE4	0T\$V\$24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0T\$7\$24 2P:P4	Fp	66A p ID

6uofins p idland

Lab Chronicle

Client: Carmona Resources
j ro/ectSite: Columbus 3ee 2W24 FL D Gne

Job ID: 880-44721-P
FDy : Gea Count, Mmp

Client Sample ID: T-4 (1.5')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Foluble	Geach	DI Geach			4glEB	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	W00g		P	E0 mG	E0 mG	8V20E	0TSP4S4 P0:PT	CH	66A p ID

Client Sample ID: T-4 (2')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			E02 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S4 0E:0E	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0E:0E	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 2P:VP	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g8 B	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 2P:VP	Fp	66A p ID
Foluble	Geach	DI Geach			4gl8 B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	W00g		P	E0 mG	E0 mG	8V20E	0TSP4S4 P0:2P	CH	66A p ID

Client Sample ID: T-4 (3')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl8 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S4 0E:2T	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0E:2T	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 2P:47	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g7 B	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 2P:47	Fp	66A p ID
Foluble	Geach	DI Geach			E0EB	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	W00g		P	E0 mG	E0 mG	8V20E	0TSP4S4 P0:2T	CH	66A p ID

Client Sample ID: T-5 (0-1')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl8 B	E mG	8VFP1	0TSPV24 PWWT	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0E4	0TSP4S4 0E:4T	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0E:4T	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 22:04	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gT B	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 22:04	Fp	66A p ID
Foluble	Geach	DI Geach			E04 B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	W00g		P	E0 mG	E0 mG	8V20E	0TSP4S4 P0:VP	CH	66A p ID

6uofins p idland

Lab Chronicle

Client: Carmona Resources
j ro/ectSite: Columbus 3ee 2W24 FL D Gne

Job ID: 880-44721-P
FDy : Gaa Count, NMP

Client Sample ID: T-5 (1.5')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			4gl T B	E mG	8VP07	0TSPV24 PW4T	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0ET	0TSP4S4 0E:V8	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0E:V8	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 22:V7	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g EB	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 22:V7	Fp	66A p ID
Foluble	Geach	DI Geach			E00 B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		E	E0 mG	E0 mG	8V20E	0TSP4S4 P0:VT	CH	66A p ID

Client Sample ID: T-5 (2')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			E0WB	E mG	8VP07	0TSPV24 PW4T	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0ET	0TSP4S4 0E:E1	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0E:E1	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 22:E4	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0g2 B	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 22:E4	Fp	66A p ID
Foluble	Geach	DI Geach			4gl T B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		E	E0 mG	E0 mG	8V20E	0TSP4S4 P0:EP	CH	66A p ID

Client Sample ID: T-5 (3')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
AotalSM	j re5	E0VE			E00 B	E mG	8VP07	0TSPV24 PW4T	6G	66A p ID
AotalSM	. nal, sis	802P9		P	E mG	E mG	8V0ET	0TSP4S4 0T:P1	p MR	66A p ID
AotalSM	. nal, sis	Aotal 9A6X		P			8V2E1	0TSP4S4 0T:P1	Fp	66A p ID
AotalSM	. nal, sis	80PE Mp		P			8VWVE	0TSP7S4 2WP0	. J	66A p ID
AotalSM	j re5	80PEMp j re5			P0gWB	P0 mG	8VPE4	0TSPV24 PT:2E	6G	66A p ID
AotalSM	. nal, sis	80PE9 Mp		P	P uG	P uG	8V278	0TSP7S4 2WP0	Fp	66A p ID
Foluble	Geach	DI Geach			4gl E B	E0 mG	8VP41	0TSPV24 PE:2W	F.	66A p ID
Foluble	. nal, sis	V00g0		P	E0 mG	E0 mG	8V20E	0TSP4S4 P0:ET	CH	66A p ID

Laboratory References:
66A p ID = 6 urofins p idlandNP2PP L g3lorida . veNp idlandNAX 7170PNA6 G(4V2)704-E440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, 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	T104704400-23-26	06-30-24
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

Internal Review
j m/nSAC: I oicRbcu 3nn 2W24 G6 D y e n

Job ID: 880-44721-C
GDL: ynr I oct a NMP

Method	Method Description	Protocol	Laboratory
802CV	Coir a n g r p r t e l o R d o c t (u) L I E	G6 84B	TTA PID
Ao a i VAT5	Ao a i VAT5 l r i S c i r a e t	AXy Gg j	TTA PID
80C MP	D e u n i s r t p n g r p r t e u) D s g E) L I E	G6 84B	TTA PID
80C V MP	D e u n i s r t p n g r p r t e u) D s g E) L I E	G6 84B	TTA PID
V00H0	X t e t u N o t l x r o R r a e p m d x ,	Tj X	TTA PID
. 0W	l i o u n (G , u a n R j c r p n r t (A n d	G6 84B	TTA PID
80C MP j md	P e r o n z a n S a e t	G6 84B	TTA PID
Dl ynr Sx	D n e t e n (6 r a m y n r S x e p j m S h (c m	XGAP	TTA PID

Protocol References:
XGAP UXGAP It antr a e t r i
Tj X U v G T t " e o t R n t a i j m a n S a e t X p n t S
G6 84B U 9 A n u a P n a o (u 3 o m T " r i c r a e p G o i e 6 r u a n N j x , u e r i f f x n R e s i P n a o (u 9 A x e t T (e o t N M o " n R b n n C 1 8 B X t (l a u v d (r a n u h
AXy Gg j U A n u a K R n n e r y r b o m a e n u N G a t (r n t g d n m a e p j m S h (c m

Laboratory References:
TTA PID U T c r o f e u P e i r t (N C 2 C C 6 h 3 i o n e r X " n N P e i r t (N A 5 7 1 7 0 C N A T y) 4 V 2 E 7 0 4 - . 4 4 0

Sample Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44729-1	T-1 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-2	T-1 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-3	T-1 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-4	T-1 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-5	T-1 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-6	T-2 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-7	T-2 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-8	T-2 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-9	T-2 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-10	T-2 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-11	T-3 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-12	T-3 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-13	T-3 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-14	T-3 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-15	T-3 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-16	T-4 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-17	T-4 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-18	T-4 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-19	T-4 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-20	T-5 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-21	T-5 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-22	T-5 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-23	T-5 (3')	Solid	06/12/24 00:00	06/13/24 13:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody



880-44729 Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Superfund
State of Project:	
Reporting Level: I	☐ Level II ☐ Level III ☐ ST/UST ☐ PRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other:

Project Name:		Columbus Fee 23-24 SWD Line		Turn Around		ANALYSIS REQUEST										Preservative Codes															
Project Number:		2330		☒ Routine ☐ Rush												None: NO DI Water: H ₂ O															
Project Location:		Lea County, NM		Due Date:												Cool: Cool MeOH: Me															
Sampler's Name:		CRM														HCL: HC HNO ₃ : HN															
POC:																H ₂ SO ₄ : H ₂ NaOH: Na															
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☒		Wet Ice:		Yes ☒ No ☐																							
Received Intact:		Yes ☒ No ☐		Thermometer ID:		TKS																									
Cold Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor:		- 1																									
Sample Custody Seals:		Yes ☐ No ☒ N/A		Temperature Reading:		-7.7																									
Total Containers:				Corrected Temperature:		-7.8																									
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chloride 300											
T-1 (0-1')		6/12/2024				X				G		1		X		X		X		X											
T-1 (1.5')		6/12/2024				X				G		1		X		X		X		X											
T-1 (2')		6/12/2024				X				G		1		X		X		X		X											
T-1 (3')		6/12/2024				X				G		1		X		X		X		X											
T-1 (4')		6/12/2024				X				G		1		X		X		X		X											
T-2 (0-1')		6/12/2024				X				G		1		X		X		X		X											
T-2 (1.5')		6/12/2024				X				G		1		X		X		X		X											
T-2 (2')		6/12/2024				X				G		1		X		X		X		X											
T-2 (3')		6/12/2024				X				G		1		X		X		X		X											
T-2 (4')		6/12/2024				X				G		1		X		X		X		X											
Sample Comments																															

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 1520

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

Work Order No: 44729

Page 2 of 3

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City/State/ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Perturb ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other:

Project Name:		Columbus Fee 23-24 SWD Line		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2330	☒ Routine	☐ Rush																None: NO	DI Water: H ₂ O	
Project Location:		Lea County, NM		Due Date:															Cool: Cool	MeOH: Me	
Submitter's Name:		CRM																	HCL: HC	HNO ₃ : HN	
PO #:																			H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No													H ₃ PO ₄ : HP	
Received intact:		Yes	No	Thermometer ID:													NaHSO ₄ : NABIS				
Caddy Custody Seals:		Yes	No	N/A	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃			
Seal Custody Seals:		Yes	No	N/A	Temperature Reading:													Zn Acetate+NaOH: Zn			
Toxic Containers:				Corrected Temperature:													NaOH+Ascorbic Acid: SAPC				
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
T-3 (0-1')		6/12/2024		X		G	1	X	X	X	X										
T-3 (1.5')		6/12/2024		X		G	1	X	X	X	X										
T-3 (2')		6/12/2024		X		G	1	X	X	X	X										
T-3 (3')		6/12/2024		X		G	1	X	X	X	X										
T-3 (4')		6/12/2024		X		G	1	X	X	X	X										
T-4 (0-1')		6/12/2024		X		G	1	X	X	X	X										
T-4 (1.5')		6/12/2024		X		G	1	X	X	X	X										
T-4 (2')		6/12/2024		X		G	1	X	X	X	X										
T-4 (3')		6/12/2024		X		G	1	X	X	X	X										
T-5 (0-1')		6/12/2024		X		G	1	X	X	X	X										

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 13:20

Work Order No: 44729

6/18/2024

Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcamrona@camronaresources.com

Work Order Comments				
Program: UST/ST	☐ RP	☐ Brownfields	☐ RC	☐ perfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV
Deliverables: EDD	☐ ADAPT	☐	Other:	

[illegible]

Comments: Email to Mike Cammona / Mcammona@cammonaresources.com and Conner Moehring / Cmoehring@cammonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44729-1
SDG Number: Lea County, NM

Login Number: 44729

List Number: 1

Creator: Rodriguez, Leticia

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	

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

Arcadis. Improving quality of life.

Appendix D

Laboratory Analytical Reports



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 12/12/2024 5:21:26 PM Revision 1

JOB DESCRIPTION

Columbus fee 23-24

JOB NUMBER

890-7441-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

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



Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Generated
12/12/2024 5:21:26 PM
Revision 1

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Laboratory Job ID: 890-7441-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	9
Surrogate Summary	32
QC Sample Results	35
QC Association Summary	50
Lab Chronicle	59
Certification Summary	69
Method Summary	70
Sample Summary	71
Chain of Custody	72
Receipt Checklists	73

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: Arcadis US Inc.
Project: Columbus fee 23-24

Job ID: 890-7441-1

Job ID: 880-51278-1

Eurofins Midland

**Job Narrative
880-51278-1**

REVISION

The report being provided is a revision of the original report sent on 11/20/2024. The report (revision 1) is being revised due to Revised report due to a laboratory error with the Organics data..

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 11/20/2024 8:56 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 -3.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Backfill (880-51278-1).

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: The surrogate recovery for the blank associated with preparation batch 880-96170 and analytical batch 880-96172 was outside the control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: Backfill (880-51278-1). 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

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: Columbus fee 23-24

Job ID: 890-7441-1

Job ID: 880-51460-1

Eurofins Midland

Job Narrative
880-51460-1

REVISION

The report being provided is a revision of the original report sent on 11/26/2024. The report (revision 1) is being revised due to Revised report to correct transcription error in client sample ID.

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 11/22/2024 4:20 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 3.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-4' (880-51460-1), B-2-4' (880-51460-2), B-3-4' (880-51460-3), B-4-4' (880-51460-4), SW-1-2' (880-51460-5), SW-3-2' (880-51460-6), SW-4-2' (880-51460-7), SW-5-2' (880-51460-8) and H-S (880-51460-9).

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 method blank for preparation batch 880-96419 and analytical batch 880-96493 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-96419/2-A) and (LCSD 880-96419/3-A). 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

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: Columbus fee 23-24

Job ID: 890-7441-1

Job ID: 890-7423-1

Eurofins Carlsbad

Job Narrative
890-7423-1

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 11/27/2024 10:45 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 -1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 6 - 2' (890-7423-1), SW - 7 - 2' (890-7423-2), SW - 8 - 2' (890-7423-3), B - 7 - 4' (890-7423-4), B - 8 - 4' (890-7423-5), B - 9 - 4' (890-7423-6), B - 10 - 4' (890-7423-7), B - 15 - 4' (890-7423-8), B - 16 - 4' (890-7423-9), SW - 2 - 2' (890-7423-10), SW - 9 - 2' (890-7423-11), SW - 10 - 2' (890-7423-12), B - 5 - 4' (890-7423-13), B - 6 - 4' (890-7423-14), B - 11 - 4' (890-7423-15), B - 12 - 4' (890-7423-16), B - 13 - 4' (890-7423-17) and B - 14 - 4' (890-7423-18).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW - 8 - 2' (890-7423-3). 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.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-96830 and analytical batch 880-96860 was outside the control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-96830 and analytical batch 880-96860 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-96831/2-A) and (LCSD 880-96831/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96833 and analytical batch 880-96846 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: Columbus fee 23-24

Job ID: 890-7441-1

Job ID: 890-7441-1Eurofins Carlsbad

Job Narrative
890-7441-1

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 12/6/2024 12:09 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 2.4°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-3A (890-7441-1) and SW-5A (890-7441-2). 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: Surrogate recovery for the following samples were outside control limits: SW-3A (890-7441-1) and SW-5A (890-7441-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97363 and analytical batch 880-97399 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.

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: Backfill

Lab Sample ID: 880-51278-1

Date Collected: 11/19/24 14:00

Matrix: Solid

Date Received: 11/20/24 08:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/20/24 09:58	11/20/24 16:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/20/24 09:58	11/20/24 16:12	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/20/24 09:58	11/20/24 16:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/20/24 09:58	11/20/24 16:12	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/20/24 09:58	11/20/24 16:12	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/20/24 09:58	11/20/24 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	11/20/24 09:58	11/20/24 16:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/20/24 09:58	11/20/24 16:12	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	0.00228	mg/Kg			11/20/24 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	50.6		49.8	15.1	mg/Kg			11/20/24 16:32	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	14.5	mg/Kg		11/20/24 10:46	11/20/24 16:32	1
Diesel Range Organics (Over C10-C28)	50.6		49.8	15.1	mg/Kg		11/20/24 10:46	11/20/24 16:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		11/20/24 10:46	11/20/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	11/20/24 10:46	11/20/24 16:32	1
o-Terphenyl	61	S1-	70 - 130	11/20/24 10:46	11/20/24 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		9.96	0.393	mg/Kg			11/20/24 10:32	1

Client Sample ID: B-1-4'

Lab Sample ID: 880-51460-1

Date Collected: 11/20/24 14:40

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		11/23/24 16:57	11/23/24 20:19	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 16:57	11/23/24 20:19	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		11/23/24 16:57	11/23/24 20:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		11/23/24 16:57	11/23/24 20:19	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		11/23/24 16:57	11/23/24 20:19	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		11/23/24 16:57	11/23/24 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/23/24 16:57	11/23/24 20:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/23/24 16:57	11/23/24 20:19	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B-1-4'

Lab Sample ID: 880-51460-1

Date Collected: 11/20/24 14:40

Matrix: Solid

Date Received: 11/22/24 16:20

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	0.00227	mg/Kg			11/23/24 20:19	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	15.1	mg/Kg			11/25/24 14:36	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	14.5	mg/Kg		11/22/24 16:33	11/25/24 14:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				11/22/24 16:33	11/25/24 14:36	1
o-Terphenyl	89		70 - 130				11/22/24 16:33	11/25/24 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	729		10.0	0.397	mg/Kg			11/25/24 10:26	1

Client Sample ID: B-2-4'

Lab Sample ID: 880-51460-2

Date Collected: 11/20/24 14:50

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		11/23/24 16:57	11/23/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				11/23/24 16:57	11/23/24 20:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/23/24 16:57	11/23/24 20:40	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	0.00227	mg/Kg			11/23/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			11/25/24 14:50	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	<49.9	U	49.9	14.5	mg/Kg		11/22/24 16:33	11/25/24 14:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		11/22/24 16:33	11/25/24 14:50	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B-2-4'

Lab Sample ID: 880-51460-2

Date Collected: 11/20/24 14:50

Matrix: Solid

Date Received: 11/22/24 16:20

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	15.1	mg/Kg	-	11/22/24 16:33	11/25/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/22/24 16:33	11/25/24 14:50	1
o-Terphenyl	93		70 - 130				11/22/24 16:33	11/25/24 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	757		10.1	0.399	mg/Kg	-		11/25/24 10:46	1

Client Sample ID: B-3-4'

Lab Sample ID: 880-51460-3

Date Collected: 11/20/24 15:00

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg	-	11/23/24 16:57	11/23/24 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/23/24 16:57	11/23/24 21:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/23/24 16:57	11/23/24 21:00	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	0.00230	mg/Kg	-		11/23/24 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg	-		11/25/24 15:05	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	<49.7	U	49.7	14.4	mg/Kg	-	11/22/24 16:33	11/25/24 15:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg	-	11/22/24 16:33	11/25/24 15:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg	-	11/22/24 16:33	11/25/24 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				11/22/24 16:33	11/25/24 15:05	1
o-Terphenyl	91		70 - 130				11/22/24 16:33	11/25/24 15:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		9.96	0.393	mg/Kg	-		11/25/24 10:52	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B-4-4'

Lab Sample ID: 880-51460-4

Date Collected: 11/20/24 15:10

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/23/24 16:57	11/23/24 21:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:57	11/23/24 21:21	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/23/24 16:57	11/23/24 21:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		11/23/24 16:57	11/23/24 21:21	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		11/23/24 16:57	11/23/24 21:21	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		11/23/24 16:57	11/23/24 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/23/24 16:57	11/23/24 21:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 16:57	11/23/24 21:21	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	0.00229	mg/Kg			11/23/24 21:21	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	15.1	mg/Kg			11/25/24 15:20	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	14.5	mg/Kg		11/22/24 16:33	11/25/24 15:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	11/22/24 16:33	11/25/24 15:20	1
o-Terphenyl	93		70 - 130	11/22/24 16:33	11/25/24 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	865		9.92	0.392	mg/Kg			11/25/24 10:59	1

Client Sample ID: SW-1-2'

Lab Sample ID: 880-51460-5

Date Collected: 11/20/24 13:00

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/23/24 16:57	11/23/24 21:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:57	11/23/24 21:41	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/23/24 16:57	11/23/24 21:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/23/24 16:57	11/23/24 21:41	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/23/24 16:57	11/23/24 21:41	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/23/24 16:57	11/23/24 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/23/24 16:57	11/23/24 21:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/23/24 16:57	11/23/24 21:41	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-1-2'

Lab Sample ID: 880-51460-5

Date Collected: 11/20/24 13:00

Matrix: Solid

Date Received: 11/22/24 16:20

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	0.00228	mg/Kg			11/23/24 21:41	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	15.1	mg/Kg			11/25/24 15:34	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	14.5	mg/Kg		11/22/24 16:33	11/25/24 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				11/22/24 16:33	11/25/24 15:34	1
o-Terphenyl	83		70 - 130				11/22/24 16:33	11/25/24 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2640		50.4	1.99	mg/Kg			11/25/24 11:06	5

Client Sample ID: SW-3-2'

Lab Sample ID: 880-51460-6

Date Collected: 11/20/24 13:20

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		11/23/24 16:57	11/23/24 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				11/23/24 16:57	11/23/24 22:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/23/24 16:57	11/23/24 22:02	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	0.00228	mg/Kg			11/23/24 22:02	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	15.1	mg/Kg			11/25/24 15:50	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	<49.8	U	49.8	14.5	mg/Kg		11/22/24 16:33	11/25/24 15:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:50	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-3-2'

Lab Sample ID: 880-51460-6

Date Collected: 11/20/24 13:20

Matrix: Solid

Date Received: 11/22/24 16:20

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	15.1	mg/Kg		11/22/24 16:33	11/25/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				11/22/24 16:33	11/25/24 15:50	1
o-Terphenyl	86		70 - 130				11/22/24 16:33	11/25/24 15:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		99.4	3.93	mg/Kg			11/25/24 11:26	10

Client Sample ID: SW-4-2'

Lab Sample ID: 880-51460-7

Date Collected: 11/20/24 13:30

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/23/24 16:57	11/23/24 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/23/24 16:57	11/23/24 22:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/23/24 16:57	11/23/24 22:22	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	0.00228	mg/Kg			11/23/24 22:22	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	15.1	mg/Kg			11/25/24 16:05	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	<50.0	U	50.0	14.5	mg/Kg		11/22/24 16:33	11/25/24 16:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 16:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				11/22/24 16:33	11/25/24 16:05	1
o-Terphenyl	88		70 - 130				11/22/24 16:33	11/25/24 16:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900		99.8	3.94	mg/Kg			11/25/24 11:32	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-5-2'

Lab Sample ID: 880-51460-8

Date Collected: 11/20/24 15:20

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		11/23/24 16:57	11/23/24 22:43	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 16:57	11/23/24 22:43	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		11/23/24 16:57	11/23/24 22:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		11/23/24 16:57	11/23/24 22:43	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		11/23/24 16:57	11/23/24 22:43	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		11/23/24 16:57	11/23/24 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/23/24 16:57	11/23/24 22:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 16:57	11/23/24 22:43	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	0.00231	mg/Kg			11/23/24 22:43	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	15.0	mg/Kg			11/25/24 16:22	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	<49.7	U	49.7	14.4	mg/Kg		11/22/24 16:33	11/25/24 16:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		11/22/24 16:33	11/25/24 16:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		11/22/24 16:33	11/25/24 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	11/22/24 16:33	11/25/24 16:22	1
o-Terphenyl	89		70 - 130	11/22/24 16:33	11/25/24 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		49.8	1.97	mg/Kg			11/25/24 11:39	5

Client Sample ID: H-S

Lab Sample ID: 880-51460-9

Date Collected: 11/20/24 08:30

Matrix: Solid

Date Received: 11/22/24 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/23/24 16:57	11/23/24 23:03	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:57	11/23/24 23:03	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/23/24 16:57	11/23/24 23:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		11/23/24 16:57	11/23/24 23:03	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		11/23/24 16:57	11/23/24 23:03	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		11/23/24 16:57	11/23/24 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/23/24 16:57	11/23/24 23:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 16:57	11/23/24 23:03	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: H-S

Lab Sample ID: 880-51460-9

Date Collected: 11/20/24 08:30

Matrix: Solid

Date Received: 11/22/24 16:20

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	0.00229	mg/Kg			11/23/24 23:03	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	15.1	mg/Kg			11/25/24 16:36	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	14.5	mg/Kg		11/22/24 16:33	11/25/24 16:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 16:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		11/22/24 16:33	11/25/24 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				11/22/24 16:33	11/25/24 16:36	1
o-Terphenyl	90		70 - 130				11/22/24 16:33	11/25/24 16:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.42	J	9.90	0.391	mg/Kg			11/25/24 11:46	1

Client Sample ID: SW - 6 - 2'

Lab Sample ID: 890-7423-1

Date Collected: 11/26/24 11:00

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/30/24 14:18	11/30/24 17:48	1
1,4-Difluorobenzene (Surr)	74		70 - 130				11/30/24 14:18	11/30/24 17:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			11/30/24 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	15.1	J	49.8	15.1	mg/Kg			12/02/24 11:58	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	14.5	mg/Kg		12/02/24 07:51	12/02/24 11:58	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.8	15.1	mg/Kg		12/02/24 07:51	12/02/24 11:58	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 6 - 2'

Lab Sample ID: 890-7423-1

Date Collected: 11/26/24 11:00

Matrix: Solid

Date Received: 11/27/24 10:45

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	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				12/02/24 07:51	12/02/24 11:58	1
o-Terphenyl	82		70 - 130				12/02/24 07:51	12/02/24 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		10.1	0.398	mg/Kg	-		12/02/24 11:35	1

Client Sample ID: SW - 7 - 2'

Lab Sample ID: 890-7423-2

Date Collected: 11/26/24 13:30

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg	-	11/30/24 14:18	11/30/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/30/24 14:18	11/30/24 18:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/30/24 14:18	11/30/24 18:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg	-		11/30/24 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	15.1	mg/Kg	-		12/02/24 12:43	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	14.5	mg/Kg	-	12/02/24 07:51	12/02/24 12:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 12:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/02/24 07:51	12/02/24 12:43	1
o-Terphenyl	77		70 - 130				12/02/24 07:51	12/02/24 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		9.92	0.392	mg/Kg	-		12/02/24 11:55	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 8 - 2'

Lab Sample ID: 890-7423-3

Date Collected: 11/26/24 13:40

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 18:29	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 18:29	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 18:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		11/30/24 14:18	11/30/24 18:29	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		11/30/24 14:18	11/30/24 18:29	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		11/30/24 14:18	11/30/24 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	11/30/24 14:18	11/30/24 18:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/30/24 14:18	11/30/24 18:29	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	0.00229	mg/Kg			11/30/24 18:29	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	15.1	mg/Kg			12/02/24 12:57	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	14.5	mg/Kg		12/02/24 07:51	12/02/24 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 12:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/02/24 07:51	12/02/24 12:57	1
o-Terphenyl	81		70 - 130	12/02/24 07:51	12/02/24 12:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		9.96	0.393	mg/Kg			12/02/24 12:02	1

Client Sample ID: B - 7 - 4'

Lab Sample ID: 890-7423-4

Date Collected: 11/26/24 10:00

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 18:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 18:50	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 18:50	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 18:50	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/30/24 14:18	11/30/24 18:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/30/24 14:18	11/30/24 18:50	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 7 - 4'

Lab Sample ID: 890-7423-4

Date Collected: 11/26/24 10:00

Matrix: Solid

Date Received: 11/27/24 10:45

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	0.00229	mg/Kg			11/30/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			12/02/24 13:13	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	<49.7	U	49.7	14.4	mg/Kg		12/02/24 07:51	12/02/24 13:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:51	12/02/24 13:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:51	12/02/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				12/02/24 07:51	12/02/24 13:13	1
o-Terphenyl	76		70 - 130				12/02/24 07:51	12/02/24 13:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0	0.397	mg/Kg			12/02/24 12:08	1

Client Sample ID: B - 8 - 4'

Lab Sample ID: 890-7423-5

Date Collected: 11/26/24 10:10

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
Ethylbenzene	<0.00201	U	0.00201	0.00110	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00230	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
Xylenes, Total	<0.00402	U	0.00402	0.00230	mg/Kg		11/30/24 14:18	11/30/24 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				11/30/24 14:18	11/30/24 19:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/30/24 14:18	11/30/24 19:10	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	0.00230	mg/Kg			11/30/24 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			12/02/24 13:27	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	14.5	mg/Kg		12/02/24 07:51	12/02/24 13:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:51	12/02/24 13:27	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 8 - 4'

Lab Sample ID: 890-7423-5

Date Collected: 11/26/24 10:10

Matrix: Solid

Date Received: 11/27/24 10:45

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	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/02/24 07:51	12/02/24 13:27	1
o-Terphenyl	83		70 - 130				12/02/24 07:51	12/02/24 13:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		9.94	0.393	mg/Kg	-		12/02/24 12:15	1

Client Sample ID: B - 9 - 4'

Lab Sample ID: 890-7423-6

Date Collected: 11/26/24 10:20

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg	-	11/30/24 14:18	11/30/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/30/24 14:18	11/30/24 19:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/30/24 14:18	11/30/24 19:31	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	0.00230	mg/Kg	-		11/30/24 19:31	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	15.1	mg/Kg	-		12/02/24 13:43	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	14.5	mg/Kg	-	12/02/24 07:51	12/02/24 13:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 13:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/02/24 07:51	12/02/24 13:43	1
o-Terphenyl	80		70 - 130				12/02/24 07:51	12/02/24 13:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		9.92	0.392	mg/Kg	-		12/02/24 12:35	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 10 - 4'

Lab Sample ID: 890-7423-7

Date Collected: 11/26/24 13:00

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		11/30/24 14:18	11/30/24 19:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/30/24 14:18	11/30/24 19:51	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		11/30/24 14:18	11/30/24 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		11/30/24 14:18	11/30/24 19:51	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		11/30/24 14:18	11/30/24 19:51	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		11/30/24 14:18	11/30/24 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/30/24 14:18	11/30/24 19:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/30/24 14:18	11/30/24 19:51	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	0.00227	mg/Kg			11/30/24 19:51	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	15.1	mg/Kg			12/02/24 13:57	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	<49.8	U	49.8	14.5	mg/Kg		12/02/24 07:51	12/02/24 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:51	12/02/24 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:51	12/02/24 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	12/02/24 07:51	12/02/24 13:57	1
o-Terphenyl	73		70 - 130	12/02/24 07:51	12/02/24 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		9.98	0.394	mg/Kg			12/02/24 12:42	1

Client Sample ID: B - 15 - 4'

Lab Sample ID: 890-7423-8

Date Collected: 11/26/24 13:10

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 20:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 20:12	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 20:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 20:12	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 20:12	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/30/24 14:18	11/30/24 20:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/30/24 14:18	11/30/24 20:12	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 15 - 4'

Lab Sample ID: 890-7423-8

Date Collected: 11/26/24 13:10

Matrix: Solid

Date Received: 11/27/24 10:45

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	0.00228	mg/Kg			11/30/24 20:12	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	15.1	mg/Kg			12/02/24 14:11	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	<50.0	U	50.0	14.5	mg/Kg		12/02/24 07:51	12/02/24 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 14:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/02/24 07:51	12/02/24 14:11	1
o-Terphenyl	72		70 - 130				12/02/24 07:51	12/02/24 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		9.96	0.393	mg/Kg			12/02/24 12:48	1

Client Sample ID: B - 16 - 4'

Lab Sample ID: 890-7423-9

Date Collected: 11/26/24 13:20

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		11/30/24 14:18	11/30/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/30/24 14:18	11/30/24 20:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/30/24 14:18	11/30/24 20:32	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	0.00231	mg/Kg			11/30/24 20:32	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	15.1	mg/Kg			12/02/24 14:26	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	<49.9	U	49.9	14.5	mg/Kg		12/02/24 07:51	12/02/24 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		12/02/24 07:51	12/02/24 14:26	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 16 - 4'

Lab Sample ID: 890-7423-9

Date Collected: 11/26/24 13:20

Matrix: Solid

Date Received: 11/27/24 10:45

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	15.1	mg/Kg	-	12/02/24 07:51	12/02/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/02/24 07:51	12/02/24 14:26	1
o-Terphenyl	74		70 - 130				12/02/24 07:51	12/02/24 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		10.0	0.397	mg/Kg	-		12/02/24 12:55	1

Client Sample ID: SW - 2 - 2'

Lab Sample ID: 890-7423-10

Date Collected: 11/26/24 14:00

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
Ethylbenzene	<0.00201	U	0.00201	0.00110	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00230	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
Xylenes, Total	<0.00402	U	0.00402	0.00230	mg/Kg	-	11/30/24 14:18	11/30/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/30/24 14:18	11/30/24 20:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/30/24 14:18	11/30/24 20:53	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	0.00230	mg/Kg	-		11/30/24 20:53	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	15.1	mg/Kg	-		12/02/24 11:58	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	14.5	mg/Kg	-	12/02/24 07:54	12/02/24 11:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 11:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				12/02/24 07:54	12/02/24 11:58	1
o-Terphenyl	90		70 - 130				12/02/24 07:54	12/02/24 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		9.94	0.393	mg/Kg	-		12/02/24 13:02	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 9 - 2'

Lab Sample ID: 890-7423-11

Date Collected: 11/26/24 14:10

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		11/30/24 14:18	11/30/24 22:27	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/30/24 14:18	11/30/24 22:27	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		11/30/24 14:18	11/30/24 22:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		11/30/24 14:18	11/30/24 22:27	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		11/30/24 14:18	11/30/24 22:27	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		11/30/24 14:18	11/30/24 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/30/24 14:18	11/30/24 22:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/30/24 14:18	11/30/24 22:27	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	0.00230	mg/Kg			11/30/24 22:27	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	15.0	mg/Kg			12/02/24 12:43	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	14.4	mg/Kg		12/02/24 07:54	12/02/24 12:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 12:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/02/24 07:54	12/02/24 12:43	1
o-Terphenyl	91		70 - 130	12/02/24 07:54	12/02/24 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161	F1	10.0	0.395	mg/Kg			12/02/24 13:08	1

Client Sample ID: SW - 10 - 2'

Lab Sample ID: 890-7423-12

Date Collected: 11/26/24 14:20

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 22:47	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 22:47	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 22:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 22:47	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 22:47	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		11/30/24 14:18	11/30/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	11/30/24 14:18	11/30/24 22:47	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/30/24 14:18	11/30/24 22:47	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 10 - 2'

Lab Sample ID: 890-7423-12

Date Collected: 11/26/24 14:20

Matrix: Solid

Date Received: 11/27/24 10:45

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	0.00228	mg/Kg			11/30/24 22:47	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	15.1	mg/Kg			12/02/24 12:57	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	<49.8	U	49.8	14.5	mg/Kg		12/02/24 07:54	12/02/24 12:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:54	12/02/24 12:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:54	12/02/24 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/02/24 07:54	12/02/24 12:57	1
o-Terphenyl	93		70 - 130				12/02/24 07:54	12/02/24 12:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		10.0	0.397	mg/Kg			12/02/24 13:28	1

Client Sample ID: B - 5 - 4'

Lab Sample ID: 890-7423-13

Date Collected: 11/26/24 14:30

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/30/24 14:18	11/30/24 23:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/30/24 14:18	11/30/24 23:08	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	0.00229	mg/Kg			11/30/24 23:08	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	15.1	mg/Kg			12/02/24 13:13	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	<49.8	U	49.8	14.5	mg/Kg		12/02/24 07:54	12/02/24 13:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:54	12/02/24 13:13	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 5 - 4'

Lab Sample ID: 890-7423-13

Date Collected: 11/26/24 14:30

Matrix: Solid

Date Received: 11/27/24 10:45

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	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				12/02/24 07:54	12/02/24 13:13	1
o-Terphenyl	99		70 - 130				12/02/24 07:54	12/02/24 13:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2950		50.4	1.99	mg/Kg	-		12/02/24 13:35	5

Client Sample ID: B - 6 - 4'

Lab Sample ID: 890-7423-14

Date Collected: 11/26/24 14:40

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg	-	11/30/24 14:18	11/30/24 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/30/24 14:18	11/30/24 23:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/30/24 14:18	11/30/24 23:28	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	0.00227	mg/Kg	-		11/30/24 23:28	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	15.1	mg/Kg	-		12/02/24 13:27	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	14.5	mg/Kg	-	12/02/24 07:54	12/02/24 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 13:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/02/24 07:54	12/02/24 13:27	1
o-Terphenyl	109		70 - 130				12/02/24 07:54	12/02/24 13:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		50.1	1.98	mg/Kg	-		12/02/24 13:55	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 11 - 4'

Lab Sample ID: 890-7423-15

Date Collected: 11/26/24 14:50

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		11/30/24 14:18	11/30/24 23:49	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/30/24 14:18	11/30/24 23:49	1
Ethylbenzene	<0.00201	U	0.00201	0.00110	mg/Kg		11/30/24 14:18	11/30/24 23:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00230	mg/Kg		11/30/24 14:18	11/30/24 23:49	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		11/30/24 14:18	11/30/24 23:49	1
Xylenes, Total	<0.00402	U	0.00402	0.00230	mg/Kg		11/30/24 14:18	11/30/24 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/30/24 14:18	11/30/24 23:49	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/30/24 14:18	11/30/24 23:49	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	0.00230	mg/Kg			11/30/24 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			12/02/24 13:43	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	14.4	mg/Kg		12/02/24 07:54	12/02/24 13:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 13:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/02/24 07:54	12/02/24 13:43	1
o-Terphenyl	91		70 - 130	12/02/24 07:54	12/02/24 13:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.90	0.391	mg/Kg			12/02/24 14:01	1

Client Sample ID: B - 12 - 4'

Lab Sample ID: 890-7423-16

Date Collected: 11/26/24 15:00

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		11/30/24 14:18	12/01/24 00:09	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/30/24 14:18	12/01/24 00:09	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		11/30/24 14:18	12/01/24 00:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		11/30/24 14:18	12/01/24 00:09	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		11/30/24 14:18	12/01/24 00:09	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		11/30/24 14:18	12/01/24 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/30/24 14:18	12/01/24 00:09	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/30/24 14:18	12/01/24 00:09	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 12 - 4'

Lab Sample ID: 890-7423-16

Date Collected: 11/26/24 15:00

Matrix: Solid

Date Received: 11/27/24 10:45

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	0.00230	mg/Kg			12/01/24 00:09	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	15.0	mg/Kg			12/02/24 13:57	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	<49.7	U	49.7	14.4	mg/Kg		12/02/24 07:54	12/02/24 13:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 13:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		12/02/24 07:54	12/02/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				12/02/24 07:54	12/02/24 13:57	1
o-Terphenyl	85		70 - 130				12/02/24 07:54	12/02/24 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.7		9.90	0.391	mg/Kg			12/02/24 14:08	1

Client Sample ID: B - 13 - 4'

Lab Sample ID: 890-7423-17

Date Collected: 11/26/24 15:10

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		11/30/24 14:18	12/01/24 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/30/24 14:18	12/01/24 00:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/30/24 14:18	12/01/24 00:30	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	0.00228	mg/Kg			12/01/24 00:30	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	15.1	mg/Kg			12/02/24 14:11	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	<49.8	U	49.8	14.5	mg/Kg		12/02/24 07:54	12/02/24 14:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		12/02/24 07:54	12/02/24 14:11	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 13 - 4'

Lab Sample ID: 890-7423-17

Date Collected: 11/26/24 15:10

Matrix: Solid

Date Received: 11/27/24 10:45

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	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/02/24 07:54	12/02/24 14:11	1
o-Terphenyl	95		70 - 130				12/02/24 07:54	12/02/24 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3960		50.2	1.98	mg/Kg	-		12/02/24 14:15	5

Client Sample ID: B - 14 - 4'

Lab Sample ID: 890-7423-18

Date Collected: 11/26/24 15:20

Matrix: Solid

Date Received: 11/27/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg	-	11/30/24 14:18	12/01/24 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/30/24 14:18	12/01/24 00:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/30/24 14:18	12/01/24 00:50	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	0.00229	mg/Kg	-		12/01/24 00:50	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	15.1	mg/Kg	-		12/02/24 14:26	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	<49.8	U	49.8	14.5	mg/Kg	-	12/02/24 07:54	12/02/24 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 14:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg	-	12/02/24 07:54	12/02/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				12/02/24 07:54	12/02/24 14:26	1
o-Terphenyl	93		70 - 130				12/02/24 07:54	12/02/24 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		10.1	0.399	mg/Kg	-		12/02/24 14:21	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-3A

Lab Sample ID: 890-7441-1

Date Collected: 12/04/24 14:10

Matrix: Solid

Date Received: 12/06/24 12:09

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		12/09/24 09:44	12/09/24 12:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:44	12/09/24 12:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:44	12/09/24 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	12/09/24 09:44	12/09/24 12:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/09/24 09:44	12/09/24 12:06	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			12/09/24 12:06	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			12/09/24 13:57	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		12/09/24 08:54	12/09/24 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/09/24 08:54	12/09/24 13:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	12/09/24 08:54	12/09/24 13:57	1
o-Terphenyl	68	S1-	70 - 130	12/09/24 08:54	12/09/24 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		10.0		mg/Kg			12/10/24 05:27	1

Client Sample ID: SW-5A

Lab Sample ID: 890-7441-2

Date Collected: 12/04/24 14:00

Matrix: Solid

Date Received: 12/06/24 12:09

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		12/09/24 09:44	12/09/24 12:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:44	12/09/24 12:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 12:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:44	12/09/24 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	12/09/24 09:44	12/09/24 12:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/09/24 09:44	12/09/24 12:26	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-5A

Lab Sample ID: 890-7441-2

Date Collected: 12/04/24 14:00

Matrix: Solid

Date Received: 12/06/24 12:09

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			12/09/24 12:26	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			12/09/24 14:43	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		12/09/24 08:54	12/09/24 14:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 14:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/09/24 08:54	12/09/24 14:43	1
o-Terphenyl	61	S1-	70 - 130				12/09/24 08:54	12/09/24 14:43	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.2		10.1		mg/Kg			12/10/24 05:33	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-51278-1	Backfill	94	99
880-51460-1	B-1-4'	103	99
880-51460-1 MS	B-1-4'	106	100
880-51460-1 MSD	B-1-4'	110	100
880-51460-2	B-2-4'	93	101
880-51460-3	B-3-4'	94	100
880-51460-4	B-4-4'	103	98
880-51460-5	SW-1-2'	101	101
880-51460-6	SW-3-2'	90	101
880-51460-7	SW-4-2'	95	100
880-51460-8	SW-5-2'	97	98
880-51460-9	H-S	90	98
890-7423-1	SW - 6 - 2'	123	74
890-7423-1 MS	SW - 6 - 2'	113	99
890-7423-1 MSD	SW - 6 - 2'	110	101
890-7423-2	SW - 7 - 2'	105	101
890-7423-3	SW - 8 - 2'	178 S1+	92
890-7423-4	B - 7 - 4'	110	100
890-7423-5	B - 8 - 4'	109	101
890-7423-6	B - 9 - 4'	112	99
890-7423-7	B - 10 - 4'	102	100
890-7423-8	B - 15 - 4'	112	99
890-7423-9	B - 16 - 4'	116	94
890-7423-10	SW - 2 - 2'	108	99
890-7423-11	SW - 9 - 2'	107	100
890-7423-12	SW - 10 - 2'	129	98
890-7423-13	B - 5 - 4'	110	99
890-7423-14	B - 6 - 4'	108	100
890-7423-15	B - 11 - 4'	111	91
890-7423-16	B - 12 - 4'	118	91
890-7423-17	B - 13 - 4'	105	100
890-7423-18	B - 14 - 4'	110	100
890-7441-1	SW-3A	134 S1+	88
890-7441-1 MS	SW-3A	107	99
890-7441-1 MSD	SW-3A	100	100
890-7441-2	SW-5A	142 S1+	97
LCS 880-96166/1-A	Lab Control Sample	105	101
LCS 880-96444/1-A	Lab Control Sample	109	101
LCS 880-96444/2-A	Lab Control Sample	101	101
LCS 880-96818/1-A	Lab Control Sample	104	99
LCS 880-97370/1-A	Lab Control Sample	103	97
LCSD 880-96166/2-A	Lab Control Sample Dup	101	100
LCSD 880-96818/2-A	Lab Control Sample Dup	104	99
LCSD 880-97370/2-A	Lab Control Sample Dup	100	98
MB 880-96166/5-A	Method Blank	94	95
MB 880-96444/5-A	Method Blank	97	94
MB 880-96818/5-A	Method Blank	95	94
MB 880-97370/5-A	Method Blank	115	89

Surrogate Legend

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Columbus fee 23-24
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

Job ID: 890-7441-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-51278-1	Backfill	69 S1-	61 S1-
880-51460-1	B-1-4'	83	89
880-51460-2	B-2-4'	86	93
880-51460-3	B-3-4'	84	91
880-51460-4	B-4-4'	88	93
880-51460-5	SW-1-2'	78	83
880-51460-6	SW-3-2'	81	86
880-51460-7	SW-4-2'	81	88
880-51460-8	SW-5-2'	83	89
880-51460-9	H-S	83	90
890-7423-1	SW - 6 - 2'	90	82
890-7423-1 MS	SW - 6 - 2'	98	77
890-7423-1 MSD	SW - 6 - 2'	97	78
890-7423-2	SW - 7 - 2'	89	77
890-7423-3	SW - 8 - 2'	92	81
890-7423-4	B - 7 - 4'	88	76
890-7423-5	B - 8 - 4'	93	83
890-7423-6	B - 9 - 4'	91	80
890-7423-7	B - 10 - 4'	85	73
890-7423-8	B - 15 - 4'	84	72
890-7423-9	B - 16 - 4'	86	74
890-7423-10	SW - 2 - 2'	87	90
890-7423-10 MS	SW - 2 - 2'	100	92
890-7423-10 MSD	SW - 2 - 2'	99	89
890-7423-11	SW - 9 - 2'	89	91
890-7423-12	SW - 10 - 2'	89	93
890-7423-13	B - 5 - 4'	94	99
890-7423-14	B - 6 - 4'	103	109
890-7423-15	B - 11 - 4'	89	91
890-7423-16	B - 12 - 4'	83	85
890-7423-17	B - 13 - 4'	92	95
890-7423-18	B - 14 - 4'	90	93
890-7441-1	SW-3A	87	68 S1-
890-7441-1 MS	SW-3A	83	70
890-7441-1 MSD	SW-3A	83	71
890-7441-2	SW-5A	81	61 S1-
LCS 880-96170/2-A	Lab Control Sample	113	95
LCS 880-96419/2-A	Lab Control Sample	136 S1+	131 S1+
LCS 880-96830/2-A	Lab Control Sample	116	93
LCS 880-96831/2-A	Lab Control Sample	147 S1+	135 S1+
LCS 880-97363/2-A	Lab Control Sample	111	99
LCSD 880-96170/3-A	Lab Control Sample Dup	108	86
LCSD 880-96419/3-A	Lab Control Sample Dup	143 S1+	134 S1+
LCSD 880-96830/3-A	Lab Control Sample Dup	123	99
LCSD 880-96831/3-A	Lab Control Sample Dup	147 S1+	135 S1+
LCSD 880-97363/3-A	Lab Control Sample Dup	103	91
MB 880-96170/1-A	Method Blank	72	64 S1-

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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)
MB 880-96419/1-A	Method Blank	76	82
MB 880-96830/1-A	Method Blank	77	69 S1-
MB 880-96831/1-A	Method Blank	78	82
MB 880-97363/1-A	Method Blank	100	80
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96166/5-A

Matrix: Solid

Analysis Batch: 96156

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/20/24 09:58	11/20/24 12:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/20/24 09:58	11/20/24 12:05	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/20/24 09:58	11/20/24 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		11/20/24 09:58	11/20/24 12:05	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/20/24 09:58	11/20/24 12:05	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		11/20/24 09:58	11/20/24 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	11/20/24 09:58	11/20/24 12:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/20/24 09:58	11/20/24 12:05	1

Lab Sample ID: LCS 880-96166/1-A

Matrix: Solid

Analysis Batch: 96156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1091		mg/Kg		109	70 - 130
Toluene	0.100	0.1064		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1116		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-96166/2-A

Matrix: Solid

Analysis Batch: 96156

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96166

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.1141		mg/Kg		114	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2180		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-96444/5-A

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/23/24 16:57	11/23/24 19:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:57	11/23/24 19:57	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: MB 880-96444/5-A

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/23/24 16:57	11/23/24 19:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		11/23/24 16:57	11/23/24 19:57	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/23/24 16:57	11/23/24 19:57	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		11/23/24 16:57	11/23/24 19:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/23/24 16:57	11/23/24 19:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/23/24 16:57	11/23/24 19:57	1

Lab Sample ID: LCS 880-96444/1-A

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1156		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCS 880-96444/2-A

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1077		mg/Kg		108	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1127		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1209		mg/Kg		121	70 - 130

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

Lab Sample ID: 880-51460-1 MS

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: B-1-4'

Prep Type: Total/NA

Prep Batch: 96444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09979		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.0996	0.09990		mg/Kg		100	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1064		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2073		mg/Kg		104	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: 880-51460-1 MS

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: B-1-4'

Prep Type: Total/NA

Prep Batch: 96444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U	0.0996	0.1143		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	106		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-51460-1 MSD

Matrix: Solid

Analysis Batch: 96440

Client Sample ID: B-1-4'

Prep Type: Total/NA

Prep Batch: 96444

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	0.1068		mg/Kg		106	70 - 130	7	35
Toluene	<0.00199	U	0.101	0.1052		mg/Kg		104	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.1117		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2171		mg/Kg		108	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1205		mg/Kg		120	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-96818/5-A

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		11/30/24 14:18	11/30/24 17:26	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		70 - 130	11/30/24 14:18	11/30/24 17:26	1			
1,4-Difluorobenzene (Surr)	94		70 - 130	11/30/24 14:18	11/30/24 17:26	1			

Lab Sample ID: LCS 880-96818/1-A

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1076		mg/Kg		108	70 - 130
Toluene	0.100	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1125		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1232		mg/Kg		123	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: LCS 880-96818/1-A

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96818

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-96818/2-A

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1069		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2255		mg/Kg		113	70 - 130	2	35
o-Xylene	0.100	0.1246		mg/Kg		125	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7423-1 MS

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: SW - 6 - 2'

Prep Type: Total/NA

Prep Batch: 96818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09049		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.09220		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1970		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.1099		mg/Kg		110	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7423-1 MSD

Matrix: Solid

Analysis Batch: 96819

Client Sample ID: SW - 6 - 2'

Prep Type: Total/NA

Prep Batch: 96818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09205		mg/Kg		93	70 - 130	2	35
Toluene	<0.00200	U	0.0994	0.09306		mg/Kg		94	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.1006		mg/Kg		101	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1959		mg/Kg		99	70 - 130	1	35
o-Xylene	<0.00200	U	0.0994	0.1089		mg/Kg		110	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: MB 880-97370/5-A

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/09/24 09:44	12/09/24 11:44	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/09/24 09:44	12/09/24 11:44	1

Lab Sample ID: LCS 880-97370/1-A

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1179		mg/Kg		118	70 - 130
Toluene	0.100	0.1099		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2267		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-97370/2-A

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1180		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1087		mg/Kg		109	70 - 130	1	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130	2	35
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-7441-1 MS

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: SW-3A

Prep Type: Total/NA

Prep Batch: 97370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1109		mg/Kg		110	70 - 130
Toluene	<0.00198	U	0.101	0.1036		mg/Kg		103	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: 890-7441-1 MS

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: SW-3A

Prep Type: Total/NA

Prep Batch: 97370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.1066		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2120		mg/Kg		105	70 - 130
o-Xylene	<0.00198	U	0.101	0.1073		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7441-1 MSD

Matrix: Solid

Analysis Batch: 97355

Client Sample ID: SW-3A

Prep Type: Total/NA

Prep Batch: 97370

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	0.1143		mg/Kg		115	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.1034		mg/Kg		104	70 - 130	0	35
Ethylbenzene	<0.00198	U	0.0998	0.1053		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2093		mg/Kg		105	70 - 130	1	35
o-Xylene	<0.00198	U	0.0998	0.1066		mg/Kg		107	70 - 130	1	35

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

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

Lab Sample ID: MB 880-96170/1-A

Matrix: Solid

Analysis Batch: 96172

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		11/19/24 17:45	11/20/24 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		11/19/24 17:45	11/20/24 03:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		11/19/24 17:45	11/20/24 03:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	11/19/24 17:45	11/20/24 03:55	1
o-Terphenyl	64	S1-	70 - 130	11/19/24 17:45	11/20/24 03:55	1

Lab Sample ID: LCS 880-96170/2-A

Matrix: Solid

Analysis Batch: 96172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1177		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.3		mg/Kg		92	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: LCS 880-96170/2-A

Matrix: Solid

Analysis Batch: 96172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96170

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-96170/3-A

Matrix: Solid

Analysis Batch: 96172

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1145		mg/Kg		115	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	833.1		mg/Kg		83	70 - 130	10	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: MB 880-96419/1-A

Matrix: Solid

Analysis Batch: 96493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		11/22/24 16:33	11/25/24 10:01	1
Diesel Range Organics (Over C10-C28)	15.29	J	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 10:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 10:01	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	76		70 - 130	11/22/24 16:33	11/25/24 10:01	1
o-Terphenyl	82		70 - 130	11/22/24 16:33	11/25/24 10:01	1

Lab Sample ID: LCS 880-96419/2-A

Matrix: Solid

Analysis Batch: 96493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1157		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: LCSD 880-96419/3-A

Matrix: Solid

Analysis Batch: 96493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96419

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1203		mg/Kg		120	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1109		mg/Kg		111	70 - 130	7	20
		LCSD %Recovery	LCSD Qualifier						
Surrogate				Limits					
1-Chlorooctane		143	S1+	70 - 130					
o-Terphenyl		134	S1+	70 - 130					

Lab Sample ID: MB 880-96830/1-A

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.04	J	50.0	14.5	mg/Kg		12/02/24 07:51	12/02/24 10:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 10:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:51	12/02/24 10:08	1
		MB %Recovery	MB Qualifier	Limits					
Surrogate					Prepared		Analyzed		Dil Fac
1-Chlorooctane		77		70 - 130	12/02/24 07:51		12/02/24 10:08		1
o-Terphenyl		69	S1-	70 - 130	12/02/24 07:51		12/02/24 10:08		1

Lab Sample ID: LCS 880-96830/2-A

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96830

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1158		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	889.6		mg/Kg		89	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: LCSD 880-96830/3-A

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1209		mg/Kg		121	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	933.6		mg/Kg		93	70 - 130	5	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: LCSD 880-96830/3-A

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96830

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-7423-1 MS

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: SW - 6 - 2'

Prep Type: Total/NA

Prep Batch: 96830

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	998	904.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	15.1	J	998	717.1		mg/Kg		72	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	77		70 - 130						

Lab Sample ID: 890-7423-1 MSD

Matrix: Solid

Analysis Batch: 96860

Client Sample ID: SW - 6 - 2'

Prep Type: Total/NA

Prep Batch: 96830

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	998	896.6		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	15.1	J	998	724.0		mg/Kg		73	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	78		70 - 130								

Lab Sample ID: MB 880-96831/1-A

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		12/02/24 07:54	12/02/24 10:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:54	12/02/24 10:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		12/02/24 07:54	12/02/24 10:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/02/24 07:54	12/02/24 10:08	1
o-Terphenyl	82		70 - 130				12/02/24 07:54	12/02/24 10:08	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: LCS 880-96831/2-A

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96831

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1214		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1187		mg/Kg		119	70 - 130		
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	147	S1+	70 - 130								
o-Terphenyl	135	S1+	70 - 130								

Lab Sample ID: LCSD 880-96831/3-A

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96831

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1231		mg/Kg		123	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1196		mg/Kg		120	70 - 130	1	20
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	147	S1+	70 - 130								
o-Terphenyl	135	S1+	70 - 130								

Lab Sample ID: 890-7423-10 MS

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: SW - 2 - 2'

Prep Type: Total/NA

Prep Batch: 96831

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	994	906.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	994	884.3		mg/Kg		89	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	100		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 890-7423-10 MSD

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: SW - 2 - 2'

Prep Type: Total/NA

Prep Batch: 96831

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	994	910.7		mg/Kg		92	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	994	855.0		mg/Kg		86	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: 890-7423-10 MSD

Matrix: Solid

Analysis Batch: 96862

Client Sample ID: SW - 2 - 2'

Prep Type: Total/NA

Prep Batch: 96831

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	89		70 - 130

Lab Sample ID: MB 880-97363/1-A

Matrix: Solid

Analysis Batch: 97399

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97363

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/09/24 08:54	12/09/24 10:02	1
<i>o</i> -Terphenyl	80		70 - 130				12/09/24 08:54	12/09/24 10:02	1

Lab Sample ID: LCS 880-97363/2-A

Matrix: Solid

Analysis Batch: 97399

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	111		70 - 130				
<i>o</i> -Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-97363/3-A

Matrix: Solid

Analysis Batch: 97399

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97363

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1121		mg/Kg		112	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	914.6		mg/Kg		91	70 - 130	10	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
<i>o</i> -Terphenyl	91		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

Lab Sample ID: 890-7441-1 MS

Matrix: Solid

Analysis Batch: 97399

Client Sample ID: SW-3A

Prep Type: Total/NA

Prep Batch: 97363

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	994	752.2		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	636.4	F1	mg/Kg		64	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	70		70 - 130						

Lab Sample ID: 890-7441-1 MSD

Matrix: Solid

Analysis Batch: 97399

Client Sample ID: SW-3A

Prep Type: Total/NA

Prep Batch: 97363

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	994	768.6		mg/Kg		77	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	660.1	F1	mg/Kg		66	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	71		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96151/1-A

Matrix: Solid

Analysis Batch: 96153

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	0.395	mg/Kg			11/20/24 09:02	1

Lab Sample ID: LCS 880-96151/2-A

Matrix: Solid

Analysis Batch: 96153

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-96151/3-A

Matrix: Solid

Analysis Batch: 96153

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	267.2		mg/Kg		107	90 - 110	0	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51278-1 MS

Matrix: Solid

Analysis Batch: 96153

Client Sample ID: Backfill

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	23.4		249	287.9		mg/Kg		106	90 - 110

Lab Sample ID: 880-51278-1 MSD

Matrix: Solid

Analysis Batch: 96153

Client Sample ID: Backfill

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.4		249	288.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-96463/1-A

Matrix: Solid

Analysis Batch: 96475

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	0.395	mg/Kg			11/25/24 10:06	1

Lab Sample ID: LCS 880-96463/2-A

Matrix: Solid

Analysis Batch: 96475

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-96463/3-A

Matrix: Solid

Analysis Batch: 96475

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	247.7		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-51460-1 MS

Matrix: Solid

Analysis Batch: 96475

Client Sample ID: B-1-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	729		251	971.8		mg/Kg		97	90 - 110

Lab Sample ID: 880-51460-1 MSD

Matrix: Solid

Analysis Batch: 96475

Client Sample ID: B-1-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	729		251	974.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-96833/1-A

Matrix: Solid

Analysis Batch: 96846

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	0.395	mg/Kg			12/02/24 11:13	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-96833/2-A

Matrix: Solid

Analysis Batch: 96846

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-96833/3-A

Matrix: Solid

Analysis Batch: 96846

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	240.9		mg/Kg		96	90 - 110	5	20

Lab Sample ID: 890-7423-1 MS

Matrix: Solid

Analysis Batch: 96846

Client Sample ID: SW - 6 - 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	112		252	373.3		mg/Kg		104	90 - 110

Lab Sample ID: 890-7423-1 MSD

Matrix: Solid

Analysis Batch: 96846

Client Sample ID: SW - 6 - 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	112		252	378.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-7423-11 MS

Matrix: Solid

Analysis Batch: 96846

Client Sample ID: SW - 9 - 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	161	F1	250	341.5	F1	mg/Kg		72	90 - 110

Lab Sample ID: 890-7423-11 MSD

Matrix: Solid

Analysis Batch: 96846

Client Sample ID: SW - 9 - 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	161	F1	250	379.2	F1	mg/Kg		87	90 - 110	10	20

Lab Sample ID: MB 880-97449/1-A

Matrix: Solid

Analysis Batch: 97453

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			12/10/24 02:36	1

Lab Sample ID: LCS 880-97449/2-A

Matrix: Solid

Analysis Batch: 97453

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-97449/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 97453											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	265.0		mg/Kg		106	90 - 110	0	20		

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC VOA

Analysis Batch: 96156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	8021B	96166
MB 880-96166/5-A	Method Blank	Total/NA	Solid	8021B	96166
LCS 880-96166/1-A	Lab Control Sample	Total/NA	Solid	8021B	96166
LCSD 880-96166/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96166

Prep Batch: 96166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	5030B	
MB 880-96166/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-96166/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-96166/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 96195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	Total BTEX	

Analysis Batch: 96440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	8021B	96444
880-51460-2	B-2-4'	Total/NA	Solid	8021B	96444
880-51460-3	B-3-4'	Total/NA	Solid	8021B	96444
880-51460-4	B-4-4'	Total/NA	Solid	8021B	96444
880-51460-5	SW-1-2'	Total/NA	Solid	8021B	96444
880-51460-6	SW-3-2'	Total/NA	Solid	8021B	96444
880-51460-7	SW-4-2'	Total/NA	Solid	8021B	96444
880-51460-8	SW-5-2'	Total/NA	Solid	8021B	96444
880-51460-9	H-S	Total/NA	Solid	8021B	96444
MB 880-96444/5-A	Method Blank	Total/NA	Solid	8021B	96444
LCS 880-96444/1-A	Lab Control Sample	Total/NA	Solid	8021B	96444
LCS 880-96444/2-A	Lab Control Sample	Total/NA	Solid	8021B	96444
880-51460-1 MS	B-1-4'	Total/NA	Solid	8021B	96444
880-51460-1 MSD	B-1-4'	Total/NA	Solid	8021B	96444

Prep Batch: 96444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	5030B	
880-51460-2	B-2-4'	Total/NA	Solid	5030B	
880-51460-3	B-3-4'	Total/NA	Solid	5030B	
880-51460-4	B-4-4'	Total/NA	Solid	5030B	
880-51460-5	SW-1-2'	Total/NA	Solid	5030B	
880-51460-6	SW-3-2'	Total/NA	Solid	5030B	
880-51460-7	SW-4-2'	Total/NA	Solid	5030B	
880-51460-8	SW-5-2'	Total/NA	Solid	5030B	
880-51460-9	H-S	Total/NA	Solid	5030B	
MB 880-96444/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-96444/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 880-96444/2-A	Lab Control Sample	Total/NA	Solid	5030B	
880-51460-1 MS	B-1-4'	Total/NA	Solid	5030B	
880-51460-1 MSD	B-1-4'	Total/NA	Solid	5030B	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC VOA

Analysis Batch: 96524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	Total BTEX	
880-51460-2	B-2-4'	Total/NA	Solid	Total BTEX	
880-51460-3	B-3-4'	Total/NA	Solid	Total BTEX	
880-51460-4	B-4-4'	Total/NA	Solid	Total BTEX	
880-51460-5	SW-1-2'	Total/NA	Solid	Total BTEX	
880-51460-6	SW-3-2'	Total/NA	Solid	Total BTEX	
880-51460-7	SW-4-2'	Total/NA	Solid	Total BTEX	
880-51460-8	SW-5-2'	Total/NA	Solid	Total BTEX	
880-51460-9	H-S	Total/NA	Solid	Total BTEX	

Prep Batch: 96818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	5030B	
890-7423-2	SW - 7 - 2'	Total/NA	Solid	5030B	
890-7423-3	SW - 8 - 2'	Total/NA	Solid	5030B	
890-7423-4	B - 7 - 4'	Total/NA	Solid	5030B	
890-7423-5	B - 8 - 4'	Total/NA	Solid	5030B	
890-7423-6	B - 9 - 4'	Total/NA	Solid	5030B	
890-7423-7	B - 10 - 4'	Total/NA	Solid	5030B	
890-7423-8	B - 15 - 4'	Total/NA	Solid	5030B	
890-7423-9	B - 16 - 4'	Total/NA	Solid	5030B	
890-7423-10	SW - 2 - 2'	Total/NA	Solid	5030B	
890-7423-11	SW - 9 - 2'	Total/NA	Solid	5030B	
890-7423-12	SW - 10 - 2'	Total/NA	Solid	5030B	
890-7423-13	B - 5 - 4'	Total/NA	Solid	5030B	
890-7423-14	B - 6 - 4'	Total/NA	Solid	5030B	
890-7423-15	B - 11 - 4'	Total/NA	Solid	5030B	
890-7423-16	B - 12 - 4'	Total/NA	Solid	5030B	
890-7423-17	B - 13 - 4'	Total/NA	Solid	5030B	
890-7423-18	B - 14 - 4'	Total/NA	Solid	5030B	
MB 880-96818/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-96818/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-96818/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7423-1 MS	SW - 6 - 2'	Total/NA	Solid	5030B	
890-7423-1 MSD	SW - 6 - 2'	Total/NA	Solid	5030B	

Analysis Batch: 96819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	8021B	96818
890-7423-2	SW - 7 - 2'	Total/NA	Solid	8021B	96818
890-7423-3	SW - 8 - 2'	Total/NA	Solid	8021B	96818
890-7423-4	B - 7 - 4'	Total/NA	Solid	8021B	96818
890-7423-5	B - 8 - 4'	Total/NA	Solid	8021B	96818
890-7423-6	B - 9 - 4'	Total/NA	Solid	8021B	96818
890-7423-7	B - 10 - 4'	Total/NA	Solid	8021B	96818
890-7423-8	B - 15 - 4'	Total/NA	Solid	8021B	96818
890-7423-9	B - 16 - 4'	Total/NA	Solid	8021B	96818
890-7423-10	SW - 2 - 2'	Total/NA	Solid	8021B	96818
890-7423-11	SW - 9 - 2'	Total/NA	Solid	8021B	96818
890-7423-12	SW - 10 - 2'	Total/NA	Solid	8021B	96818
890-7423-13	B - 5 - 4'	Total/NA	Solid	8021B	96818

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC VOA (Continued)

Analysis Batch: 96819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-14	B - 6 - 4'	Total/NA	Solid	8021B	96818
890-7423-15	B - 11 - 4'	Total/NA	Solid	8021B	96818
890-7423-16	B - 12 - 4'	Total/NA	Solid	8021B	96818
890-7423-17	B - 13 - 4'	Total/NA	Solid	8021B	96818
890-7423-18	B - 14 - 4'	Total/NA	Solid	8021B	96818
MB 880-96818/5-A	Method Blank	Total/NA	Solid	8021B	96818
LCS 880-96818/1-A	Lab Control Sample	Total/NA	Solid	8021B	96818
LCSD 880-96818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96818
890-7423-1 MS	SW - 6 - 2'	Total/NA	Solid	8021B	96818
890-7423-1 MSD	SW - 6 - 2'	Total/NA	Solid	8021B	96818

Analysis Batch: 96847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	Total BTEX	
890-7423-2	SW - 7 - 2'	Total/NA	Solid	Total BTEX	
890-7423-3	SW - 8 - 2'	Total/NA	Solid	Total BTEX	
890-7423-4	B - 7 - 4'	Total/NA	Solid	Total BTEX	
890-7423-5	B - 8 - 4'	Total/NA	Solid	Total BTEX	
890-7423-6	B - 9 - 4'	Total/NA	Solid	Total BTEX	
890-7423-7	B - 10 - 4'	Total/NA	Solid	Total BTEX	
890-7423-8	B - 15 - 4'	Total/NA	Solid	Total BTEX	
890-7423-9	B - 16 - 4'	Total/NA	Solid	Total BTEX	
890-7423-10	SW - 2 - 2'	Total/NA	Solid	Total BTEX	
890-7423-11	SW - 9 - 2'	Total/NA	Solid	Total BTEX	
890-7423-12	SW - 10 - 2'	Total/NA	Solid	Total BTEX	
890-7423-13	B - 5 - 4'	Total/NA	Solid	Total BTEX	
890-7423-14	B - 6 - 4'	Total/NA	Solid	Total BTEX	
890-7423-15	B - 11 - 4'	Total/NA	Solid	Total BTEX	
890-7423-16	B - 12 - 4'	Total/NA	Solid	Total BTEX	
890-7423-17	B - 13 - 4'	Total/NA	Solid	Total BTEX	
890-7423-18	B - 14 - 4'	Total/NA	Solid	Total BTEX	

Analysis Batch: 97355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	8021B	97370
890-7441-2	SW-5A	Total/NA	Solid	8021B	97370
MB 880-97370/5-A	Method Blank	Total/NA	Solid	8021B	97370
LCS 880-97370/1-A	Lab Control Sample	Total/NA	Solid	8021B	97370
LCSD 880-97370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97370
890-7441-1 MS	SW-3A	Total/NA	Solid	8021B	97370
890-7441-1 MSD	SW-3A	Total/NA	Solid	8021B	97370

Prep Batch: 97370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	5030B	
890-7441-2	SW-5A	Total/NA	Solid	5030B	
MB 880-97370/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97370/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97370/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7441-1 MS	SW-3A	Total/NA	Solid	5030B	
890-7441-1 MSD	SW-3A	Total/NA	Solid	5030B	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC VOA

Analysis Batch: 97497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	Total BTEX	
890-7441-2	SW-5A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	8015NM Prep	
MB 880-96170/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96170/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	8015B NM	96170
MB 880-96170/1-A	Method Blank	Total/NA	Solid	8015B NM	96170
LCS 880-96170/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96170
LCSD 880-96170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96170

Analysis Batch: 96187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Total/NA	Solid	8015 NM	

Prep Batch: 96419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	8015NM Prep	
880-51460-2	B-2-4'	Total/NA	Solid	8015NM Prep	
880-51460-3	B-3-4'	Total/NA	Solid	8015NM Prep	
880-51460-4	B-4-4'	Total/NA	Solid	8015NM Prep	
880-51460-5	SW-1-2'	Total/NA	Solid	8015NM Prep	
880-51460-6	SW-3-2'	Total/NA	Solid	8015NM Prep	
880-51460-7	SW-4-2'	Total/NA	Solid	8015NM Prep	
880-51460-8	SW-5-2'	Total/NA	Solid	8015NM Prep	
880-51460-9	H-S	Total/NA	Solid	8015NM Prep	
MB 880-96419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	8015B NM	96419
880-51460-2	B-2-4'	Total/NA	Solid	8015B NM	96419
880-51460-3	B-3-4'	Total/NA	Solid	8015B NM	96419
880-51460-4	B-4-4'	Total/NA	Solid	8015B NM	96419
880-51460-5	SW-1-2'	Total/NA	Solid	8015B NM	96419
880-51460-6	SW-3-2'	Total/NA	Solid	8015B NM	96419
880-51460-7	SW-4-2'	Total/NA	Solid	8015B NM	96419
880-51460-8	SW-5-2'	Total/NA	Solid	8015B NM	96419
880-51460-9	H-S	Total/NA	Solid	8015B NM	96419
MB 880-96419/1-A	Method Blank	Total/NA	Solid	8015B NM	96419
LCS 880-96419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96419

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC Semi VOA (Continued)

Analysis Batch: 96493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-96419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96419

Analysis Batch: 96568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Total/NA	Solid	8015 NM	
880-51460-2	B-2-4'	Total/NA	Solid	8015 NM	
880-51460-3	B-3-4'	Total/NA	Solid	8015 NM	
880-51460-4	B-4-4'	Total/NA	Solid	8015 NM	
880-51460-5	SW-1-2'	Total/NA	Solid	8015 NM	
880-51460-6	SW-3-2'	Total/NA	Solid	8015 NM	
880-51460-7	SW-4-2'	Total/NA	Solid	8015 NM	
880-51460-8	SW-5-2'	Total/NA	Solid	8015 NM	
880-51460-9	H-S	Total/NA	Solid	8015 NM	

Prep Batch: 96830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-2	SW - 7 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-3	SW - 8 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-4	B - 7 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-5	B - 8 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-6	B - 9 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-7	B - 10 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-8	B - 15 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-9	B - 16 - 4'	Total/NA	Solid	8015NM Prep	
MB 880-96830/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96830/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7423-1 MS	SW - 6 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-1 MSD	SW - 6 - 2'	Total/NA	Solid	8015NM Prep	

Prep Batch: 96831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-10	SW - 2 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-11	SW - 9 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-12	SW - 10 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-13	B - 5 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-14	B - 6 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-15	B - 11 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-16	B - 12 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-17	B - 13 - 4'	Total/NA	Solid	8015NM Prep	
890-7423-18	B - 14 - 4'	Total/NA	Solid	8015NM Prep	
MB 880-96831/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96831/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7423-10 MS	SW - 2 - 2'	Total/NA	Solid	8015NM Prep	
890-7423-10 MSD	SW - 2 - 2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	8015B NM	96830

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC Semi VOA (Continued)

Analysis Batch: 96860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-2	SW - 7 - 2'	Total/NA	Solid	8015B NM	96830
890-7423-3	SW - 8 - 2'	Total/NA	Solid	8015B NM	96830
890-7423-4	B - 7 - 4'	Total/NA	Solid	8015B NM	96830
890-7423-5	B - 8 - 4'	Total/NA	Solid	8015B NM	96830
890-7423-6	B - 9 - 4'	Total/NA	Solid	8015B NM	96830
890-7423-7	B - 10 - 4'	Total/NA	Solid	8015B NM	96830
890-7423-8	B - 15 - 4'	Total/NA	Solid	8015B NM	96830
890-7423-9	B - 16 - 4'	Total/NA	Solid	8015B NM	96830
MB 880-96830/1-A	Method Blank	Total/NA	Solid	8015B NM	96830
LCS 880-96830/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96830
LCSD 880-96830/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96830
890-7423-1 MS	SW - 6 - 2'	Total/NA	Solid	8015B NM	96830
890-7423-1 MSD	SW - 6 - 2'	Total/NA	Solid	8015B NM	96830

Analysis Batch: 96862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-10	SW - 2 - 2'	Total/NA	Solid	8015B NM	96831
890-7423-11	SW - 9 - 2'	Total/NA	Solid	8015B NM	96831
890-7423-12	SW - 10 - 2'	Total/NA	Solid	8015B NM	96831
890-7423-13	B - 5 - 4'	Total/NA	Solid	8015B NM	96831
890-7423-14	B - 6 - 4'	Total/NA	Solid	8015B NM	96831
890-7423-15	B - 11 - 4'	Total/NA	Solid	8015B NM	96831
890-7423-16	B - 12 - 4'	Total/NA	Solid	8015B NM	96831
890-7423-17	B - 13 - 4'	Total/NA	Solid	8015B NM	96831
890-7423-18	B - 14 - 4'	Total/NA	Solid	8015B NM	96831
MB 880-96831/1-A	Method Blank	Total/NA	Solid	8015B NM	96831
LCS 880-96831/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96831
LCSD 880-96831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96831
890-7423-10 MS	SW - 2 - 2'	Total/NA	Solid	8015B NM	96831
890-7423-10 MSD	SW - 2 - 2'	Total/NA	Solid	8015B NM	96831

Analysis Batch: 96891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Total/NA	Solid	8015 NM	
890-7423-2	SW - 7 - 2'	Total/NA	Solid	8015 NM	
890-7423-3	SW - 8 - 2'	Total/NA	Solid	8015 NM	
890-7423-4	B - 7 - 4'	Total/NA	Solid	8015 NM	
890-7423-5	B - 8 - 4'	Total/NA	Solid	8015 NM	
890-7423-6	B - 9 - 4'	Total/NA	Solid	8015 NM	
890-7423-7	B - 10 - 4'	Total/NA	Solid	8015 NM	
890-7423-8	B - 15 - 4'	Total/NA	Solid	8015 NM	
890-7423-9	B - 16 - 4'	Total/NA	Solid	8015 NM	
890-7423-10	SW - 2 - 2'	Total/NA	Solid	8015 NM	
890-7423-11	SW - 9 - 2'	Total/NA	Solid	8015 NM	
890-7423-12	SW - 10 - 2'	Total/NA	Solid	8015 NM	
890-7423-13	B - 5 - 4'	Total/NA	Solid	8015 NM	
890-7423-14	B - 6 - 4'	Total/NA	Solid	8015 NM	
890-7423-15	B - 11 - 4'	Total/NA	Solid	8015 NM	
890-7423-16	B - 12 - 4'	Total/NA	Solid	8015 NM	
890-7423-17	B - 13 - 4'	Total/NA	Solid	8015 NM	
890-7423-18	B - 14 - 4'	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

GC Semi VOA

Prep Batch: 97363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	8015NM Prep	
890-7441-2	SW-5A	Total/NA	Solid	8015NM Prep	
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7441-1 MS	SW-3A	Total/NA	Solid	8015NM Prep	
890-7441-1 MSD	SW-3A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	8015B NM	97363
890-7441-2	SW-5A	Total/NA	Solid	8015B NM	97363
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015B NM	97363
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97363
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97363
890-7441-1 MS	SW-3A	Total/NA	Solid	8015B NM	97363
890-7441-1 MSD	SW-3A	Total/NA	Solid	8015B NM	97363

Analysis Batch: 97458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Total/NA	Solid	8015 NM	
890-7441-2	SW-5A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Soluble	Solid	DI Leach	
MB 880-96151/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96151/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96151/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51278-1 MS	Backfill	Soluble	Solid	DI Leach	
880-51278-1 MSD	Backfill	Soluble	Solid	DI Leach	

Analysis Batch: 96153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51278-1	Backfill	Soluble	Solid	300.0	96151
MB 880-96151/1-A	Method Blank	Soluble	Solid	300.0	96151
LCS 880-96151/2-A	Lab Control Sample	Soluble	Solid	300.0	96151
LCSD 880-96151/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96151
880-51278-1 MS	Backfill	Soluble	Solid	300.0	96151
880-51278-1 MSD	Backfill	Soluble	Solid	300.0	96151

Leach Batch: 96463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Soluble	Solid	DI Leach	
880-51460-2	B-2-4'	Soluble	Solid	DI Leach	
880-51460-3	B-3-4'	Soluble	Solid	DI Leach	
880-51460-4	B-4-4'	Soluble	Solid	DI Leach	
880-51460-5	SW-1-2'	Soluble	Solid	DI Leach	
880-51460-6	SW-3-2'	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

HPLC/IC (Continued)

Leach Batch: 96463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-7	SW-4-2'	Soluble	Solid	DI Leach	
880-51460-8	SW-5-2'	Soluble	Solid	DI Leach	
880-51460-9	H-S	Soluble	Solid	DI Leach	
MB 880-96463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51460-1 MS	B-1-4'	Soluble	Solid	DI Leach	
880-51460-1 MSD	B-1-4'	Soluble	Solid	DI Leach	

Analysis Batch: 96475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51460-1	B-1-4'	Soluble	Solid	300.0	96463
880-51460-2	B-2-4'	Soluble	Solid	300.0	96463
880-51460-3	B-3-4'	Soluble	Solid	300.0	96463
880-51460-4	B-4-4'	Soluble	Solid	300.0	96463
880-51460-5	SW-1-2'	Soluble	Solid	300.0	96463
880-51460-6	SW-3-2'	Soluble	Solid	300.0	96463
880-51460-7	SW-4-2'	Soluble	Solid	300.0	96463
880-51460-8	SW-5-2'	Soluble	Solid	300.0	96463
880-51460-9	H-S	Soluble	Solid	300.0	96463
MB 880-96463/1-A	Method Blank	Soluble	Solid	300.0	96463
LCS 880-96463/2-A	Lab Control Sample	Soluble	Solid	300.0	96463
LCSD 880-96463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96463
880-51460-1 MS	B-1-4'	Soluble	Solid	300.0	96463
880-51460-1 MSD	B-1-4'	Soluble	Solid	300.0	96463

Leach Batch: 96833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Soluble	Solid	DI Leach	
890-7423-2	SW - 7 - 2'	Soluble	Solid	DI Leach	
890-7423-3	SW - 8 - 2'	Soluble	Solid	DI Leach	
890-7423-4	B - 7 - 4'	Soluble	Solid	DI Leach	
890-7423-5	B - 8 - 4'	Soluble	Solid	DI Leach	
890-7423-6	B - 9 - 4'	Soluble	Solid	DI Leach	
890-7423-7	B - 10 - 4'	Soluble	Solid	DI Leach	
890-7423-8	B - 15 - 4'	Soluble	Solid	DI Leach	
890-7423-9	B - 16 - 4'	Soluble	Solid	DI Leach	
890-7423-10	SW - 2 - 2'	Soluble	Solid	DI Leach	
890-7423-11	SW - 9 - 2'	Soluble	Solid	DI Leach	
890-7423-12	SW - 10 - 2'	Soluble	Solid	DI Leach	
890-7423-13	B - 5 - 4'	Soluble	Solid	DI Leach	
890-7423-14	B - 6 - 4'	Soluble	Solid	DI Leach	
890-7423-15	B - 11 - 4'	Soluble	Solid	DI Leach	
890-7423-16	B - 12 - 4'	Soluble	Solid	DI Leach	
890-7423-17	B - 13 - 4'	Soluble	Solid	DI Leach	
890-7423-18	B - 14 - 4'	Soluble	Solid	DI Leach	
MB 880-96833/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96833/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96833/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7423-1 MS	SW - 6 - 2'	Soluble	Solid	DI Leach	
890-7423-1 MSD	SW - 6 - 2'	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

HPLC/IC (Continued)

Leach Batch: 96833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-11 MS	SW - 9 - 2'	Soluble	Solid	DI Leach	
890-7423-11 MSD	SW - 9 - 2'	Soluble	Solid	DI Leach	

Analysis Batch: 96846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7423-1	SW - 6 - 2'	Soluble	Solid	300.0	96833
890-7423-2	SW - 7 - 2'	Soluble	Solid	300.0	96833
890-7423-3	SW - 8 - 2'	Soluble	Solid	300.0	96833
890-7423-4	B - 7 - 4'	Soluble	Solid	300.0	96833
890-7423-5	B - 8 - 4'	Soluble	Solid	300.0	96833
890-7423-6	B - 9 - 4'	Soluble	Solid	300.0	96833
890-7423-7	B - 10 - 4'	Soluble	Solid	300.0	96833
890-7423-8	B - 15 - 4'	Soluble	Solid	300.0	96833
890-7423-9	B - 16 - 4'	Soluble	Solid	300.0	96833
890-7423-10	SW - 2 - 2'	Soluble	Solid	300.0	96833
890-7423-11	SW - 9 - 2'	Soluble	Solid	300.0	96833
890-7423-12	SW - 10 - 2'	Soluble	Solid	300.0	96833
890-7423-13	B - 5 - 4'	Soluble	Solid	300.0	96833
890-7423-14	B - 6 - 4'	Soluble	Solid	300.0	96833
890-7423-15	B - 11 - 4'	Soluble	Solid	300.0	96833
890-7423-16	B - 12 - 4'	Soluble	Solid	300.0	96833
890-7423-17	B - 13 - 4'	Soluble	Solid	300.0	96833
890-7423-18	B - 14 - 4'	Soluble	Solid	300.0	96833
MB 880-96833/1-A	Method Blank	Soluble	Solid	300.0	96833
LCS 880-96833/2-A	Lab Control Sample	Soluble	Solid	300.0	96833
LCSD 880-96833/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96833
890-7423-1 MS	SW - 6 - 2'	Soluble	Solid	300.0	96833
890-7423-1 MSD	SW - 6 - 2'	Soluble	Solid	300.0	96833
890-7423-11 MS	SW - 9 - 2'	Soluble	Solid	300.0	96833
890-7423-11 MSD	SW - 9 - 2'	Soluble	Solid	300.0	96833

Leach Batch: 97449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Soluble	Solid	DI Leach	
890-7441-2	SW-5A	Soluble	Solid	DI Leach	
MB 880-97449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 97453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7441-1	SW-3A	Soluble	Solid	300.0	97449
890-7441-2	SW-5A	Soluble	Solid	300.0	97449
MB 880-97449/1-A	Method Blank	Soluble	Solid	300.0	97449
LCS 880-97449/2-A	Lab Control Sample	Soluble	Solid	300.0	97449
LCSD 880-97449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97449

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: Backfill
Date Collected: 11/19/24 14:00
Date Received: 11/20/24 08:56

Lab Sample ID: 880-51278-1
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	5030B			5.01 g	5 mL	96166	11/20/24 09:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96156	11/20/24 16:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96195	11/20/24 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			96187	11/20/24 16:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96170	11/20/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96172	11/20/24 16:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96151	11/20/24 08:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96153	11/20/24 10:32	CH	EET MID

Client Sample ID: B-1-4'
Date Collected: 11/20/24 14:40
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-1
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	5030B			5.03 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 20:19	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 20:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 14:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 14:36	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96475	11/25/24 10:26	SMC	EET MID

Client Sample ID: B-2-4'
Date Collected: 11/20/24 14:50
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-2
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	5030B			5.04 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 20:40	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 20:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 14:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 14:50	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96475	11/25/24 10:46	SMC	EET MID

Client Sample ID: B-3-4'
Date Collected: 11/20/24 15:00
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-3
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	5030B			4.96 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 21:00	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 21:00	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B-3-4'

Lab Sample ID: 880-51460-3

Date Collected: 11/20/24 15:00

Matrix: Solid

Date Received: 11/22/24 16:20

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			96568	11/25/24 15:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 15:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96475	11/25/24 10:52	SMC	EET MID

Client Sample ID: B-4-4'

Lab Sample ID: 880-51460-4

Date Collected: 11/20/24 15:10

Matrix: Solid

Date Received: 11/22/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 21:21	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 21:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 15:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 15:20	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96475	11/25/24 10:59	SMC	EET MID

Client Sample ID: SW-1-2'

Lab Sample ID: 880-51460-5

Date Collected: 11/20/24 13:00

Matrix: Solid

Date Received: 11/22/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 21:41	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 21:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 15:34	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96475	11/25/24 11:06	SMC	EET MID

Client Sample ID: SW-3-2'

Lab Sample ID: 880-51460-6

Date Collected: 11/20/24 13:20

Matrix: Solid

Date Received: 11/22/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 22:02	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 22:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 15:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 15:50	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW-3-2'
Date Collected: 11/20/24 13:20
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96475	11/25/24 11:26	SMC	EET MID

Client Sample ID: SW-4-2'
Date Collected: 11/20/24 13:30
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-7
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	5030B			5.01 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 22:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 22:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 16:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96475	11/25/24 11:32	SMC	EET MID

Client Sample ID: SW-5-2'
Date Collected: 11/20/24 15:20
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-8
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	5030B			4.95 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 22:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 22:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 16:22	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96475	11/25/24 11:39	SMC	EET MID

Client Sample ID: H-S
Date Collected: 11/20/24 08:30
Date Received: 11/22/24 16:20

Lab Sample ID: 880-51460-9
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	5030B			4.99 g	5 mL	96444	11/23/24 16:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96440	11/23/24 23:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96524	11/23/24 23:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			96568	11/25/24 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 16:36	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96463	11/25/24 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96475	11/25/24 11:46	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 6 - 2'

Lab Sample ID: 890-7423-1

Date Collected: 11/26/24 11:00

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 11:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 11:35	CH	EET MID

Client Sample ID: SW - 7 - 2 '

Lab Sample ID: 890-7423-2

Date Collected: 11/26/24 13:30

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 12:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 11:55	CH	EET MID

Client Sample ID: SW - 8 - 2'

Lab Sample ID: 890-7423-3

Date Collected: 11/26/24 13:40

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 12:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:02	CH	EET MID

Client Sample ID: B - 7 - 4'

Lab Sample ID: 890-7423-4

Date Collected: 11/26/24 10:00

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 18:50	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 7 - 4'
Date Collected: 11/26/24 10:00
Date Received: 11/27/24 10:45

Lab Sample ID: 890-7423-4
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			96891	12/02/24 13:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:08	CH	EET MID

Client Sample ID: B - 8 - 4'
Date Collected: 11/26/24 10:10
Date Received: 11/27/24 10:45

Lab Sample ID: 890-7423-5
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	5030B			4.97 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 13:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:15	CH	EET MID

Client Sample ID: B - 9 - 4'
Date Collected: 11/26/24 10:20
Date Received: 11/27/24 10:45

Lab Sample ID: 890-7423-6
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	5030B			4.96 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:35	CH	EET MID

Client Sample ID: B - 10 - 4'
Date Collected: 11/26/24 13:00
Date Received: 11/27/24 10:45

Lab Sample ID: 890-7423-7
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	5030B			5.03 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 19:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 13:57	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 10 - 4'

Lab Sample ID: 890-7423-7

Date Collected: 11/26/24 13:00

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:42	CH	EET MID

Client Sample ID: B - 15 - 4'

Lab Sample ID: 890-7423-8

Date Collected: 11/26/24 13:10

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 20:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 14:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:48	CH	EET MID

Client Sample ID: B - 16 - 4'

Lab Sample ID: 890-7423-9

Date Collected: 11/26/24 13:20

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 20:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96830	12/02/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96860	12/02/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 12:55	CH	EET MID

Client Sample ID: SW - 2 - 2'

Lab Sample ID: 890-7423-10

Date Collected: 11/26/24 14:00

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 20:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 11:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 13:02	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: SW - 9 - 2'

Lab Sample ID: 890-7423-11

Date Collected: 11/26/24 14:10

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 22:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 22:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 12:43	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 13:08	CH	EET MID

Client Sample ID: SW - 10 - 2'

Lab Sample ID: 890-7423-12

Date Collected: 11/26/24 14:20

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 22:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 22:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 12:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 12:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 13:28	CH	EET MID

Client Sample ID: B - 5 - 4'

Lab Sample ID: 890-7423-13

Date Collected: 11/26/24 14:30

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 23:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96846	12/02/24 13:35	CH	EET MID

Client Sample ID: B - 6 - 4'

Lab Sample ID: 890-7423-14

Date Collected: 11/26/24 14:40

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 23:28	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 6 - 4'

Lab Sample ID: 890-7423-14

Date Collected: 11/26/24 14:40

Matrix: Solid

Date Received: 11/27/24 10:45

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			96891	12/02/24 13:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 13:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96846	12/02/24 13:55	CH	EET MID

Client Sample ID: B - 11 - 4'

Lab Sample ID: 890-7423-15

Date Collected: 11/26/24 14:50

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	11/30/24 23:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	11/30/24 23:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 14:01	CH	EET MID

Client Sample ID: B - 12 - 4'

Lab Sample ID: 890-7423-16

Date Collected: 11/26/24 15:00

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	12/01/24 00:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	12/01/24 00:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 13:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 14:08	CH	EET MID

Client Sample ID: B - 13 - 4'

Lab Sample ID: 890-7423-17

Date Collected: 11/26/24 15:10

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	12/01/24 00:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	12/01/24 00:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 14:11	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Client Sample ID: B - 13 - 4'

Lab Sample ID: 890-7423-17

Date Collected: 11/26/24 15:10

Matrix: Solid

Date Received: 11/27/24 10:45

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	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96846	12/02/24 14:15	CH	EET MID

Client Sample ID: B - 14 - 4'

Lab Sample ID: 890-7423-18

Date Collected: 11/26/24 15:20

Matrix: Solid

Date Received: 11/27/24 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	96818	11/30/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96819	12/01/24 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96847	12/01/24 00:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			96891	12/02/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	96833	12/02/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96846	12/02/24 14:21	CH	EET MID

Client Sample ID: SW-3A

Lab Sample ID: 890-7441-1

Date Collected: 12/04/24 14:10

Matrix: Solid

Date Received: 12/06/24 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97497	12/09/24 12:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			97458	12/09/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 13:57	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97449	12/09/24 15:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97453	12/10/24 05:27	CH	EET MID

Client Sample ID: SW-5A

Lab Sample ID: 890-7441-2

Date Collected: 12/04/24 14:00

Matrix: Solid

Date Received: 12/06/24 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97497	12/09/24 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			97458	12/09/24 14:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 14:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97449	12/09/24 15:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97453	12/10/24 05:33	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

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: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	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: Arcadis US Inc.
Project/Site: Columbus fee 23-24

Job ID: 890-7441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51278-1	Backfill	Solid	11/19/24 14:00	11/20/24 08:56
880-51460-1	B-1-4'	Solid	11/20/24 14:40	11/22/24 16:20
880-51460-2	B-2-4'	Solid	11/20/24 14:50	11/22/24 16:20
880-51460-3	B-3-4'	Solid	11/20/24 15:00	11/22/24 16:20
880-51460-4	B-4-4'	Solid	11/20/24 15:10	11/22/24 16:20
880-51460-5	SW-1-2'	Solid	11/20/24 13:00	11/22/24 16:20
880-51460-6	SW-3-2'	Solid	11/20/24 13:20	11/22/24 16:20
880-51460-7	SW-4-2'	Solid	11/20/24 13:30	11/22/24 16:20
880-51460-8	SW-5-2'	Solid	11/20/24 15:20	11/22/24 16:20
880-51460-9	H-S	Solid	11/20/24 08:30	11/22/24 16:20
890-7423-1	SW - 6 - 2'	Solid	11/26/24 11:00	11/27/24 10:45
890-7423-2	SW - 7 - 2 '	Solid	11/26/24 13:30	11/27/24 10:45
890-7423-3	SW - 8 - 2'	Solid	11/26/24 13:40	11/27/24 10:45
890-7423-4	B - 7 - 4'	Solid	11/26/24 10:00	11/27/24 10:45
890-7423-5	B - 8 - 4'	Solid	11/26/24 10:10	11/27/24 10:45
890-7423-6	B - 9 - 4'	Solid	11/26/24 10:20	11/27/24 10:45
890-7423-7	B - 10 - 4'	Solid	11/26/24 13:00	11/27/24 10:45
890-7423-8	B - 15 - 4'	Solid	11/26/24 13:10	11/27/24 10:45
890-7423-9	B - 16 - 4'	Solid	11/26/24 13:20	11/27/24 10:45
890-7423-10	SW - 2 - 2'	Solid	11/26/24 14:00	11/27/24 10:45
890-7423-11	SW - 9 - 2'	Solid	11/26/24 14:10	11/27/24 10:45
890-7423-12	SW - 10 - 2'	Solid	11/26/24 14:20	11/27/24 10:45
890-7423-13	B - 5 - 4'	Solid	11/26/24 14:30	11/27/24 10:45
890-7423-14	B - 6 - 4'	Solid	11/26/24 14:40	11/27/24 10:45
890-7423-15	B - 11 - 4'	Solid	11/26/24 14:50	11/27/24 10:45
890-7423-16	B - 12 - 4'	Solid	11/26/24 15:00	11/27/24 10:45
890-7423-17	B - 13 - 4'	Solid	11/26/24 15:10	11/27/24 10:45
890-7423-18	B - 14 - 4'	Solid	11/26/24 15:20	11/27/24 10:45
890-7441-1	SW-3A	Solid	12/04/24 14:10	12/06/24 12:09
890-7441-2	SW-5A	Solid	12/04/24 14:00	12/06/24 12:09

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701

Phone (432) 704-5440

Chain of Custody Record

eurofins

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7441-1

Login Number: 7441

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7441-1

Login Number: 7441
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 12/09/24 08:13 AM

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	

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

Arcadis. Improving quality of life.

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 425157

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409554213
Incident Name	NAPP2409554213 COLUMBUS FEE 23 & 24 @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2203353212] Columbus Fee 23&24H CTB - Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COLUMBUS FEE 23 & 24
Date Release Discovered	04/04/2024
Surface Owner	Private

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: Other Other (Specify) Produced Water Released: 111 BBL Recovered: 75 BBL Lost: 36 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.

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, Page 2

Action 425157

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	N/A

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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/08/2024
--	---

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, Page 3

Action 425157

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	Direct Measurement
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)	Between ½ and 1 (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	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	8480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	62.9
GRO+DRO (EPA SW-846 Method 8015M)	62.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>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>	
On what estimated date will the remediation commence	11/04/2024
On what date will (or did) the final sampling or liner inspection occur	11/04/2024
On what date will (or was) the remediation complete(d)	11/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	4217
What is the estimated volume (in cubic yards) that will be reclaimed	1284
What is the estimated surface area (in square feet) that will be remediated	4217
What is the estimated volume (in cubic yards) that will be remediated	1284
<i>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.</i>	
<i>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.</i>	

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, Page 4

Action 425157

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	Columbus Fee 23&24H CTB - Battery [fAPP2203353212]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 10/22/2024
<i>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.</i>	

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, Page 5

Action 425157

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	na
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	177
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Columbus Fee 23&24H CTB - Battery [fAPP2203353212]
Enter the well API (30-) on which this deferral should be granted	30-025-43489 COLUMBUS FEE #023H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>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>	
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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/27/2025

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, Page 6

Action 425157

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	404447
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/21/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	4217

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	No
--	----

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 425157

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 425157
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of SW-1 and SW-4 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	2/5/2025