



COG (ConocoPhillips)

2024 Soil Reclamation Variance Request

Foster Eddy #11

Incident # nMAP1822870620

November 2024

Variance Request

In 2018, HRL Compliance Solutions assessed the release area. The majority of the release was confirmed to be contained on the pad area with a small volume that flowed down the right-of-way, along a lease road within a steep graded natural washout channel.

No excavation or reclamation work was completed in the washout area during remediation activities completed by Paragon Environmental in April of 2023. The washout area was assessed by Arcadis in August and September 2023 to confirm any potential remaining impact in place throughout the washout area. No constituents of concern from the historical release were reported above NMOCD reclamation screening criteria from analytical samples collected within the washout area during the delineation sampling event completed on September 19, 2023.

Precipitation flows rapidly through this area preventing vegetative growth. As such, Arcadis is requesting approval of the following Variance:

Arcadis requests that no further reclamation activities, including re-seeding, will be required at this time due to the anticipated continuation of intermittent high-flow volumes from natural precipitation events that will inhibit new vegetative growth as it has inhibited historical vegetative growth due to natural topographic elevation conditions within this area at the site.

A handwritten signature in blue ink that reads 'Justin Nixon'.

Justin Nixon, Certified Project Manager

A handwritten signature in blue ink that reads 'Scott Foord'.

Scott Foord, PG, Certified Project Manager



COG (ConocoPhillips)

2024 Soil Remediation Summary and Closure Request Report

Foster Eddy #11

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2024 Soil Remediation Summary and Closure Request Report

Contents

1 Introduction..... 1

2 Project Summary 1

2.1 Incident # nMAP1822870620..... 1

3 Site Characterization-Assessment Activities 1

4 Closure Criteria for Soils Impacted by a Release 2

4.1 Chloride 2

4.2 TPH..... 2

4.3 BTEX 2

5 Restoration, Reclamation, and Re-Vegetation Activities 2

6 Summary 3

7 Soil Closure Request..... 3

Tables

Table 1. 2023 Soil Analytical Results

Figures

Figure 1. Site Location Map

Figure 2. Assessment Sample Locations

Photographic Logs

Log 1. 2023 Soil Remediation Photographic Log

Appendices

- Appendix A. 2023 Paragon Environmental Site Assessment, Remediation, and Closure Report
- Appendix B. Laboratory Analytical Reports
- Appendix C. Historical Washout Area

2024 Soil Remediation Summary and Closure Request Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation Summary and Closure Request Report (Report), on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Foster Eddy #11 (Site) located at 32.830698, -103.890381. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141.

2 Project Summary

The Site is located approximately 10-miles west of the City of Maljimar in Unit J, Section 17, Township 17 South, Range 31 East, Eddy County, New Mexico. A Site Location Map is included as **Figure 1**.

2.1 Incident # nMAP1822870620

According to the Initial C-141 Form, on August 11, 2018, a release was caused by a hole in the tubing due to corrosion. The leak resulted in the release of approximately 22 barrels (bbls) of produced water and 1 bbl of oil to the ground surface at the Site. A vacuum truck recovered approximately 1 barrel (bbl) of produced water and 1 bbl of oil. The Initial C-141 Form was submitted to the NMOCD on August 13, 2018 and assigned Incident ID number nMAP1822870620.

3 Site Characterization-Assessment Activities

Soil assessment activities were performed at the Site from August to September 2023 by Arcadis to evaluate the horizontal and vertical extent of the release within the right of way and wash area adjacent to the pad area at the Site. The assessment activities and associated analytical soil sample results were in response to the rejection of the “*Site assessment, remediation, and closure report*” submitted by Spur Energy to the NMOCD (see **Appendix A**) on June 28, 2023. The rejection notice from the NMOCD states, “*while most of the incident is on the pad site, a small volume did flow down a right of way, along a lease road and a small wash*”.

Per NMOCD request, Arcadis conducted additional assessment activities inclusive of the installation of horizontal and vertical delineation borings from August to September 2023. Samples from ten (10) locations were collected with a hand auger in the wash area and along the lease road.

Chloride concentrations in soil were determined during soil assessment activities to be below the applicable screening limit of 600 milligrams per kilogram (mg/kg) for chloride at depths ranging from approximately 0 feet below ground surface (bgs) to 3 feet bgs with the exception of the soil sample collected within the right of way and wash area south to southwest of the pad at a depth of 3 bgs (“S-5-2'-3' (washout)”). Chloride concentrations in this sample were reported at 626 mg/kg, which slightly exceeded the screening level of 600 mg/kg. Arcadis remobilized to the site in September 2023 to further delineate the area in each cardinal direction surrounding boring S-5. The concentrations from S-5A, S-5N, S-5E, S-5S, and S-5W ranged from 41.2 mg/kg to 410 mg/kg at depths extending from approximately 0 feet bgs to 3 feet bgs where a dry (solid) clay layer was encountered.

Soil confirmation samples were collected in 4-oz jars provided by Eurofins Xenco Analytical Laboratory (Xenco) located in Midland, Texas, placed on ice and shipped to Xenco for analysis of chloride by United States

2024 Soil Remediation Summary and Closure Request Report

Environmental Protection Agency (USEPA) Method 300; total petroleum hydrocarbons (TPH) by Method 8015 M for gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO); and benzene, toluene, ethylbenzene and xylenes (BTEX) by USEPA Methods 8015/8021. Analytical results are shown in **Table 1**. Laboratory analytical reports are included in **Appendix B**.

Photographic documentation of the assessment activities is contained in the **2023 Soil Assessment Photographic Log**

4 Closure Criteria for Soils Impacted by a Release

Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria apply to a Site with depth to ground water less than 50 feet bgs and no documented water wells within ½ mile of the site:

Constituent	Limit (mg/kg)
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX (total)	50 mg/kg
Benzene	10 mg/kg

4.1 Chloride

All soil samples collected within the subsequently assessed areas were reported below the NMAC reclamation limit of 600 mg/kg for chloride.

4.2 TPH

Total TPH concentrations (GRO + DRO + ORO) were not reported in soil at concentrations above the NMAC closure criteria of 100 mg/kg.

4.3 BTEX

Benzene and BTEX soil concentrations were reported below the NMAC standards of 10 mg/kg and 50 mg/kg respectively at all horizontal delineation sample locations.

5 Restoration, Reclamation, and Re-Vegetation Activities

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits had been removed from the surrounding pad areas, the excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area on pad was contoured and/or compacted to achieve erosion control, stability, and preservation

2024 Soil Remediation Summary and Closure Request Report

of surface water flow to the extent practicable with a backhoe. Due to the excavated areas being on an active pad, it was not reseeded. No excavation or reclamation work was complete in the wash out area assessed by Arcadis in August and September 2023. This area has a natural historical wash out where natural precipitation flows and creates an approximate 4-5' washed out area in the soil adjacent to the lease road preventing vegetative growth. A historical image is shown depicting the lack of vegetation running parallel to the lease road in **Appendix C**.

6 Summary

Analytical results associated with recent remediation activities conducted in 2023 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 less than 50 feet bgs have been assessed both horizontally and vertically and are not present in the right of way or wash area south of the initial impacted area. For reference, analytical soil sample results from the subsequent horizontal delineation activities are summarized in **Table 1**.

7 Soil Closure Request

Impacted soil above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was not reported at concentrations exceeding the applicable screening limits for the Site in the right of way or wash area. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples for all assessed areas at the Site.

Based upon the findings presented in this report, no additional soil assessment, remediation, or reclamation activities are recommended at this time to further delineate the TPH, BTEX, or chloride impacts in soil at the Site. As such, Arcadis, on behalf of ConocoPhillips, respectfully requests closure of Incident number nMAP1822870620 (Foster Eddy #11).

Tables

Table 1
2023 Soil Analytical Results
Foster Eddy #11
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	BTEX Methods						TPH Methods				CI Method
			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m-Xylene & p-Xylene (mg/kg)	o-Xylene (mg/kg)	Xylenes, Total (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)
S-4-0-6" (washout)	08/01/2023	0.5	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	29.2J B	69.0B	<15.1	98.2	46.0
S-4-1'-2" (washout)	08/01/2023	2	--	--	--	--	--	--	--	--	--	--	68.2
S-4-2'-3" (washout)	08/01/2023	3	--	--	--	--	--	--	--	--	--	--	90.6
S-4-6"-1' (washout)	08/01/2023	1	--	--	--	--	--	--	--	--	--	--	50.5
S-5-0-6" (washout)	08/01/2023	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	36.0J B	21.2J B	<15.1	57.2	37.7
S-5-1'-2" (washout)	08/01/2023	2	--	--	--	--	--	--	--	--	--	--	334
S-5-2'-3" (washout)	08/01/2023	3	--	--	--	--	--	--	--	--	--	--	626
S-5-6"-1' (washout)	08/01/2023	1	--	--	--	--	--	--	--	--	--	--	89.6
S-5A-S-0"-6"	09/19/2023	0.5	<0.000386	<0.000457	0.00109J	<0.00101	<0.000345	<0.00101	<14.9	23.4J B	<14.9	23.4J	327F1
S-5A-S-1'-2"	09/19/2023	2	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<15.0	<15.0	<15.0	<15.0	290
S-5A-S-2'-3"	09/19/2023	3	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<15.0	<15.0	<15.0	<15.0	410
S-5A-S-6"-1'	09/19/2023	1	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<15.1	<15.1	<15.1	<15.1	332
S-5E-S-0"-6"	09/19/2023	0.5	<0.000385	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<14.9	<14.9	<14.9	<14.9	98.8
S-5E-S-1'-2"	09/19/2023	2	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<15.0	<15.0	<15.0	<15.0	83.0
S-5E-S-2'-3"	09/19/2023	3	<0.000383	<0.000453	<0.000562	0.00119J	0.000413J	0.00160J	19.2J *1	<15.0	<15.0	19.2J	107
S-5E-S-6"-1'	09/19/2023	1	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<15.1	<15.1	<15.1	<15.1	200
S-5N-S-0"-6"	09/19/2023	0.5	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<15.0	<15.0	<15.0	<15.0	161
S-5N-S-1'-2"	09/19/2023	2	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<14.9	<14.9	<14.9	<14.9	128
S-5N-S-2'-3"	09/19/2023	3	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<15.1	<15.1	<15.1	<15.1	122
S-5N-S-6"-1'	09/19/2023	1	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<14.9	<14.9	<14.9	<14.9	165
S-5S-S-0"-6"	09/19/2023	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<14.9	<14.9	<14.9	<14.9	66.3
S-5S-S-1'-2"	09/19/2023	2	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<15.1	<15.1	<15.1	<15.1	71.7
S-5S-S-2'-3"	09/19/2023	3	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<15.0	<15.0	<15.0	<15.0	78.6
S-5S-S-6"-1'	09/19/2023	1	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<14.9	<14.9	<14.9	<14.9	122
S-5W-S-0"-6"	09/19/2023	0.5	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<14.9	<14.9	<14.9	<14.9	41.2
S-5W-S-1'-2"	09/19/2023	2	<0.000389	<0.000461	<0.000571	<0.00102	<0.000347	<0.00102	<15.2	<15.2	<15.2	<15.2	42.2
S-5W-S-2'-3"	09/19/2023	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<15.0	<15.0	<15.0	<15.0	58.7
S-5W-S-6"-1'	09/19/2023	1	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	16.5J *1	17.1J B	<15.0	33.6J	65.4
S-6-0-6" (washout)	08/01/2023	0.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	35.7J B	21.4J B	<14.9	57.1	94.7
S-6-1'-2" (washout)	08/01/2023	2	--	--	--	--	--	--	--	--	--	--	69.5
S-6-2'-3" (washout)	08/01/2023	3	--	--	--	--	--	--	--	--	--	--	70.2
S-6-6"-1' (washout)	08/01/2023	1	--	--	--	--	--	--	--	--	--	--	54.1
S-7-0-6" (washout)	08/01/2023	0.5	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	29.7J B	23.1J B	<14.9	52.8	47.4
S-7-1'-2" (washout)	08/01/2023	2	--	--	--	--	--	--	--	--	--	--	50.2
S-7-2'-3" (washout)	08/01/2023	3	--	--	--	--	--	--	--	--	--	--	68.8
S-7-6"-1' (washout)	08/01/2023	1	--	--	--	--	--	--	--	--	--	--	56.5
S-8-0-6" (washout)	08/01/2023	0.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	31.0J B	18.2J B	<14.9	49.2J	46.2
S-8-6"-1' (washout)	08/01/2023	1	--	--	--	--	--	--	--	--	--	--	34.1
S-8-1'-2" (washout)	08/01/2023	2	--	--	--	--	--	--	--	--	--	--	49.0
S-8-2'-3" (washout)	08/01/2023	3	--	--	--	--	--	--	--	--	--	--	41.0
NMOCD Reclamation Standard			10	--	--	--	--	--	--	--	--	100	600

Legend:

Analytes exceeding NMAC standards are indicated in **bold**

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

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbons Diesel Range Organics

TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics

" : Indicates inches

"' " : Indicates one foot

S : Hand auger soil sample

Notes:

1. Chloride analyzed by EPA Method 300

2. TPH analyzed by EPA Method 8015 M

3. BTEX analyzed by EPA Method 8260B

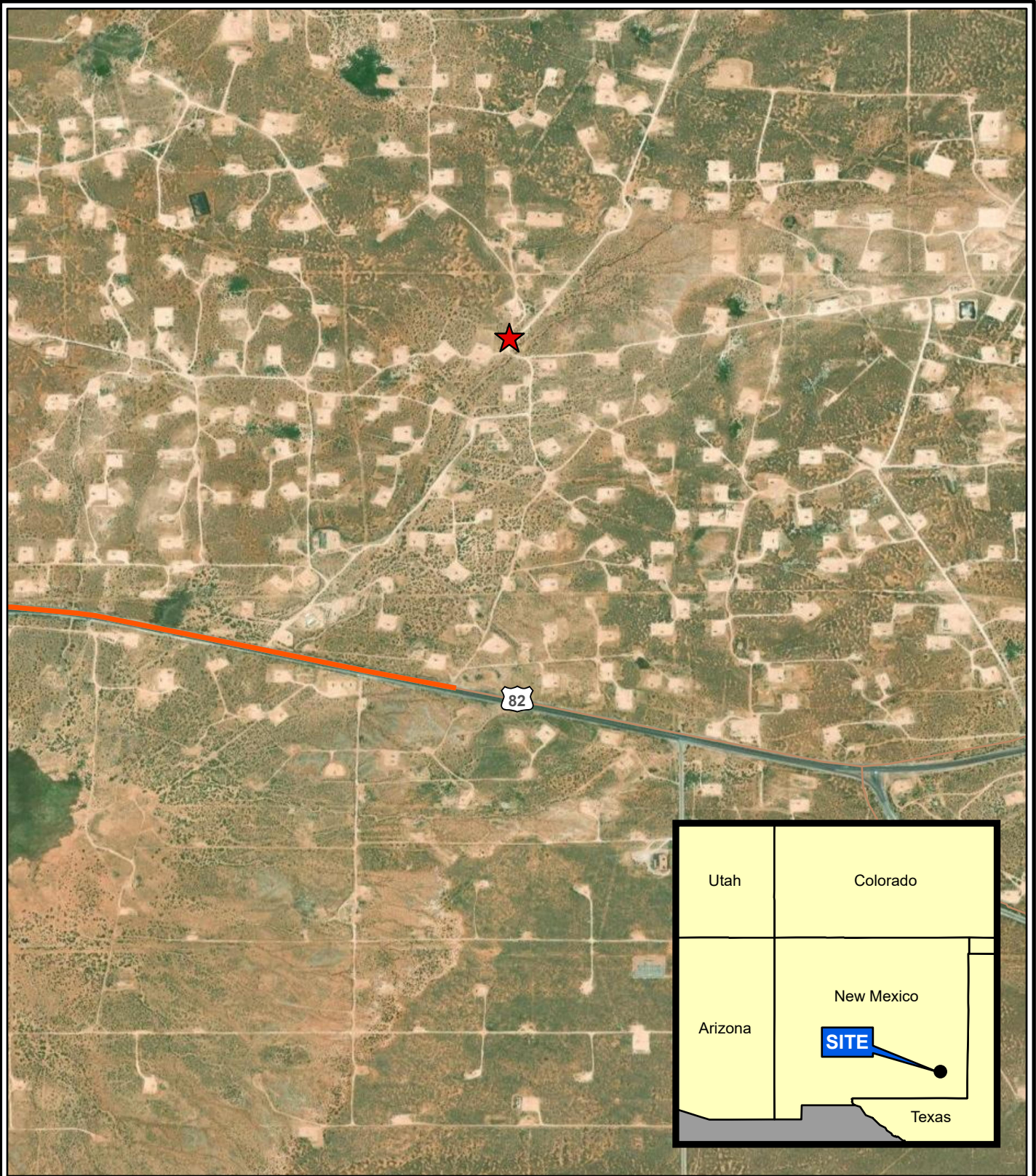
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

NMOCD: New Mexico Oil Conservation Division

--: No individual standard

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
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LEGEND:

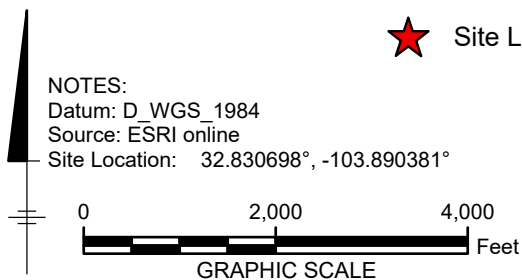
★ Site Location

NOTES:

Datum: D_WGS_1984

Source: ESRI online

Site Location: 32.830698°, -103.890381°



COG (CONOCOPHILLIPS)
FOSTER EDDY #11
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

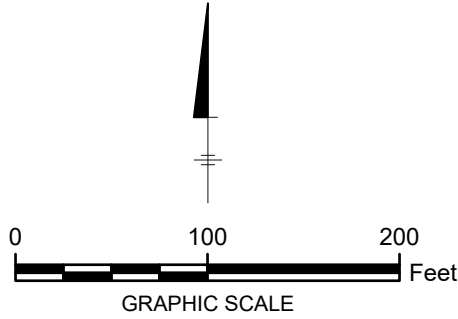


FIGURE
1

City: Houston Div/Group: Remediation West-Air Group Created By: W Berry Last Saved By: wberry Client (Project #)
T1_EHSS/ArcGIS_ProLand/COG_COPINM/Foster_Eddy_11HA/aprx 1/16/2024 1:44 PM




LEGEND:
[Yellow square symbol] Assessment Sample Location





NOTE:
1. Source: ESRI World Imagery, Maxar, 6/10/2023


COG (CONOCOPHILLIPS) FOSTER EDDY #11 EDDY COUNTY, NEW MEXICO	
Assessment Sample Locations	
	FIGURE 2

Photographic Logs

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Foster Eddy #11		Location: Eddy County, NM	Case No. nMAP1822870620
Photo No. 1	Date: 08/01/2023		
Direction Photo Taken: SE			
Description: Foster Eddy #11 Well Pad 32.83183°, -103.89039			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Foster Eddy #11		Location: Eddy County, NM	Case No. nMAP1822870620
Photo No. 2	Date: 08/01/2023		
Direction Photo Taken: S			
Description: Wash area south of pad 32.83183°, -103.89039			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Foster Eddy #11		Location: Eddy County, NM	Case No. nMAP1822870620
Photo No. 3	Date: 08/01/2023		
Direction Photo Taken: N			
Description: Wash area south of pad 32.83183°, -103.89039			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Foster Eddy #11		Location: Eddy County, NM	Case No. nMAP1822870620
Photo No. 4	Date: 08/01/2023		
Direction Photo Taken: S			
Description: Lower wash area south of pad 32.83183°, -103.89039			

Appendix A

2023 Paragon Environmental Site Assessment, Remediation, and Closure Report



June 20, 2023

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

**Re: Site Assessment, Remediation and Closure Report
Foster Eddy #11
API No. 30-015-26231
GPS: Latitude 32.8318329 Longitude -103.8903885
UL "J", Sec. 17, T17S, R31E
Eddy County, NM
NMOCD Ref. No. NMAP1822870620**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and conduct remediation activities for the release site known as the Foster Eddy #11(Foster). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water/Crude Oil	Volume of Release:	23 bbls
		Volume Recovered:	2 bbls
Source of Release:	Wellhead	Date of Release:	08/11/18
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	Federal
The release was caused by a hole in the tubing due to corrosion.			

Topographical and Aerial Maps are provided in Figures #2 and #4. A copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) can be found in Appendix C.

REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

Site Characteristics	
Approximate Depth to Groundwater	<50'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, or private, domestic fresh water well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed there was no water data within a ½ mile radius. With this being the case, we cleaned it up to the most stringent criteria.

Depth to groundwater information is provided in Appendix A.

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
<50 Feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). The soil in this area is made up of Largo Loam, with 1 to 5 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Foster (Figure #3).

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.

INITIAL SITE ASSESSMENT & SOIL SAMPLING EVENT

On December 8, 2022, Paragon conducted an initial site assessment. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-8-22 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 12-8-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	6"	ND	ND	ND	21.4	ND	21.4	432
	1'	ND	ND	ND	ND	ND	0	176
	2'	ND	ND	ND	ND	ND	0	128
	3'	ND	ND	ND	ND	ND	0	192
	4'	ND	ND	ND	ND	ND	0	192
S-2	6"	ND	ND	ND	ND	ND	0	1440
	1'	ND	ND	ND	ND	ND	0	192
	2'	ND	ND	ND	ND	ND	0	144
	3'	ND	ND	ND	ND	ND	0	368
	4'	ND	ND	ND	ND	ND	0	400
S-3	6"	ND	ND	ND	ND	ND	0	272
	1'	ND	ND	ND	ND	ND	0	320
	2'	ND	ND	ND	ND	ND	0	272
	3'	ND	ND	ND	ND	ND	0	304
	4'	ND	ND	ND	ND	ND	0	288
S-4	6"	ND	ND	ND	ND	ND	0	608
	1'	ND	ND	ND	ND	ND	0	320
	2'	ND	ND	ND	ND	ND	0	448
	3'	ND	ND	ND	ND	ND	0	512
	4'	ND	ND	ND	ND	ND	0	448
S-5	6"	ND	ND	ND	ND	ND	0	48
	1'	ND	ND	ND	ND	ND	0	80
	2'	ND	ND	ND	ND	ND	0	64
	3'	ND	ND	ND	ND	ND	0	32
	4'	ND	ND	ND	ND	ND	0	48
S-6	6"	ND	ND	ND	ND	ND	0	80
	1'	ND	ND	ND	ND	ND	0	96
	2'	ND	ND	ND	ND	ND	0	208
	3'	ND	ND	ND	ND	ND	0	304
	4'	ND	ND	ND	ND	ND	0	480
S-7	6"	ND	ND	ND	ND	ND	0	160
	1'	ND	ND	ND	ND	ND	0	144
	2'	ND	ND	ND	ND	ND	0	80
	3'	ND	ND	ND	ND	ND	0	304
	4'	ND	ND	ND	ND	ND	0	416
S-8	6"	ND	ND	ND	ND	ND	0	128
	1'	ND	ND	ND	ND	ND	0	144
	2'	ND	ND	ND	ND	ND	0	80
	3'	ND	ND	ND	ND	ND	0	272
	4'	ND	ND	ND	ND	ND	0	384

(ND) - Analyte Not Detected

All Laboratory analytical reports are provided in Appendix E. A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On April 13, 2023, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following remedial activities were undertaken to advance the Release Site toward an NMOCD-approved site closure:

- We utilized a backhoe to remove the contamination in the areas of S-2 and S-4 to a depth of 1 foot. BGS.
- S-2 surface area was approximately 390 sq/ft.
- S-4 surface area was approximately 375 sq/ft.
- Once the area was excavated, an email was sent to the NMOCD on April 13, 2023, notifying them that we would be obtaining confirmation samples. We utilized composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this event are in the following data table:

4-17-22 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 4-17-23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW - 1	1'	--	--	--	--	--	0	128
ESW - 2	1'	--	--	--	--	--	0	176
NSW - 1	1'	--	--	--	--	--	0	496
NSW - 2	1'	--	--	--	--	--	0	592
S - 2 B	1'	--	--	--	--	--	0	80
S - 3 B	1'	--	--	--	--	--	0	48
S - 4 B	1'	--	--	--	--	--	0	48
S - 1 B	1'	--	--	--	--	--	0	48
SSW - 1	1'	--	--	--	--	--	0	64
SSW - 2	1'	--	--	--	--	--	0	640
WSW - 1	1'	--	--	--	--	--	0	656
WSW - 2	1'	--	--	--	--	--	0	64

(--) - Analyte Not Tested

- These laboratory analytical results indicated that not all samples were below the criterium set by the NMOCD.
- We excavated an additional foot horizontally from the walls in the areas of WSW-1 and SSW-2.
- Once these areas were excavated, we emailed the NMOCD and obtained additional confirmation samples. The results of this event are in the following data table on the next page:

5-2-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 5-2-23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
SSW-2	1'	--	--	--	--	--	0	80
WSW-1	1'	--	--	--	--	--	0	112

(--) - Analyte Not Tested

- The laboratory analytical results indicated that concentrations were below NMOCD Closure Criteria.
- All excavated soils were temporarily stockpiled on-site atop a poly liner. The material was later transported to Lea Land, an NMOCD-approved waste disposal facility where backfill material was also obtained.
- The area was then contoured and machine-compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, **NMAP1822870620**, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please get in touch with Tristan Jones by phone at (575)631-6977 or email at tristan@paragonenvironmental.net.

Respectfully,


Tristan Jones
Project Coordinator
Paragon Environmental, LLC




Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – C-141
- Appendix D – Email Notification & Photographic Documentation
- Appendix E – Laboratory Reports



Figures:

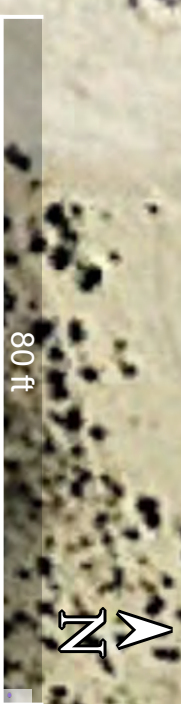
- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map

Spur Energy Partners

Foster Eddy 11
API # 30-015-26231
Eddy County, NM
Site Map

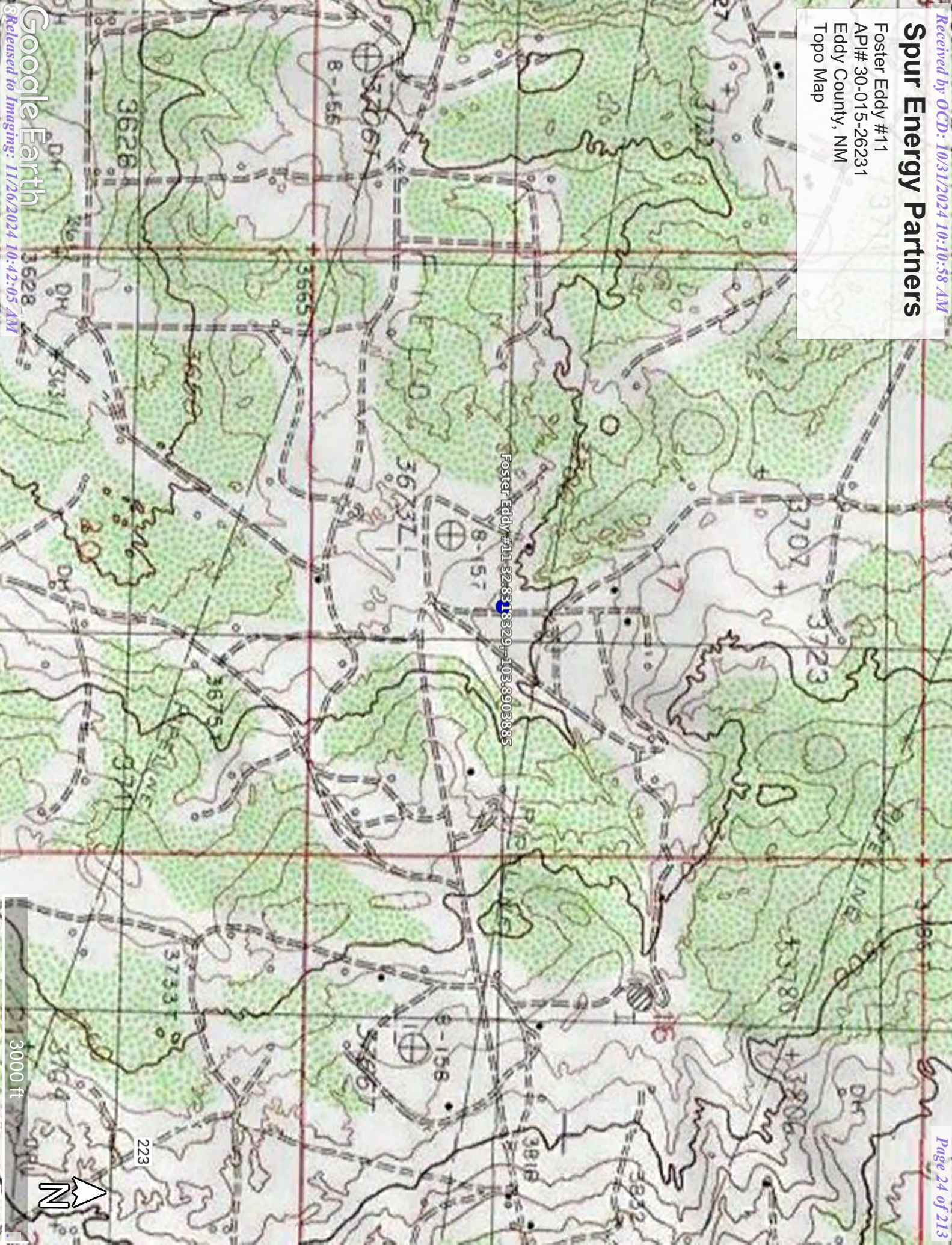
Legend

- Feature 1
- Foster Eddy #11 32.8318329,-103.8903885



Spur Energy Partners

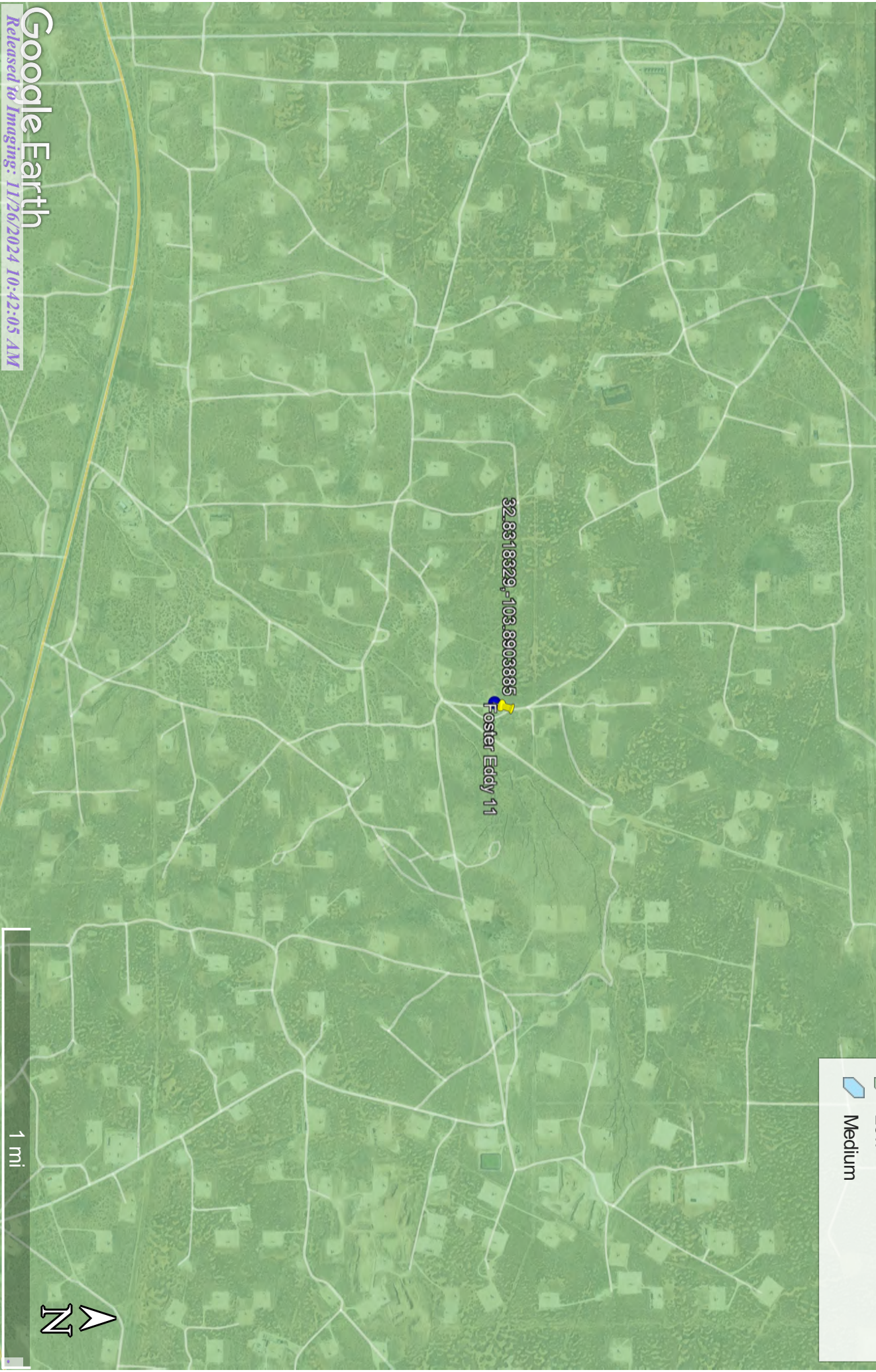
Foster Eddy #11
API# 30-015-26231
Eddy County, NM
Topo Map








Foster Eddy #11 32.8318329, -103.8903885

Spur Energy Partners

Foster Eddy 11
API # 30-015-26231
Eddy County, NM
Karst Map





Legend

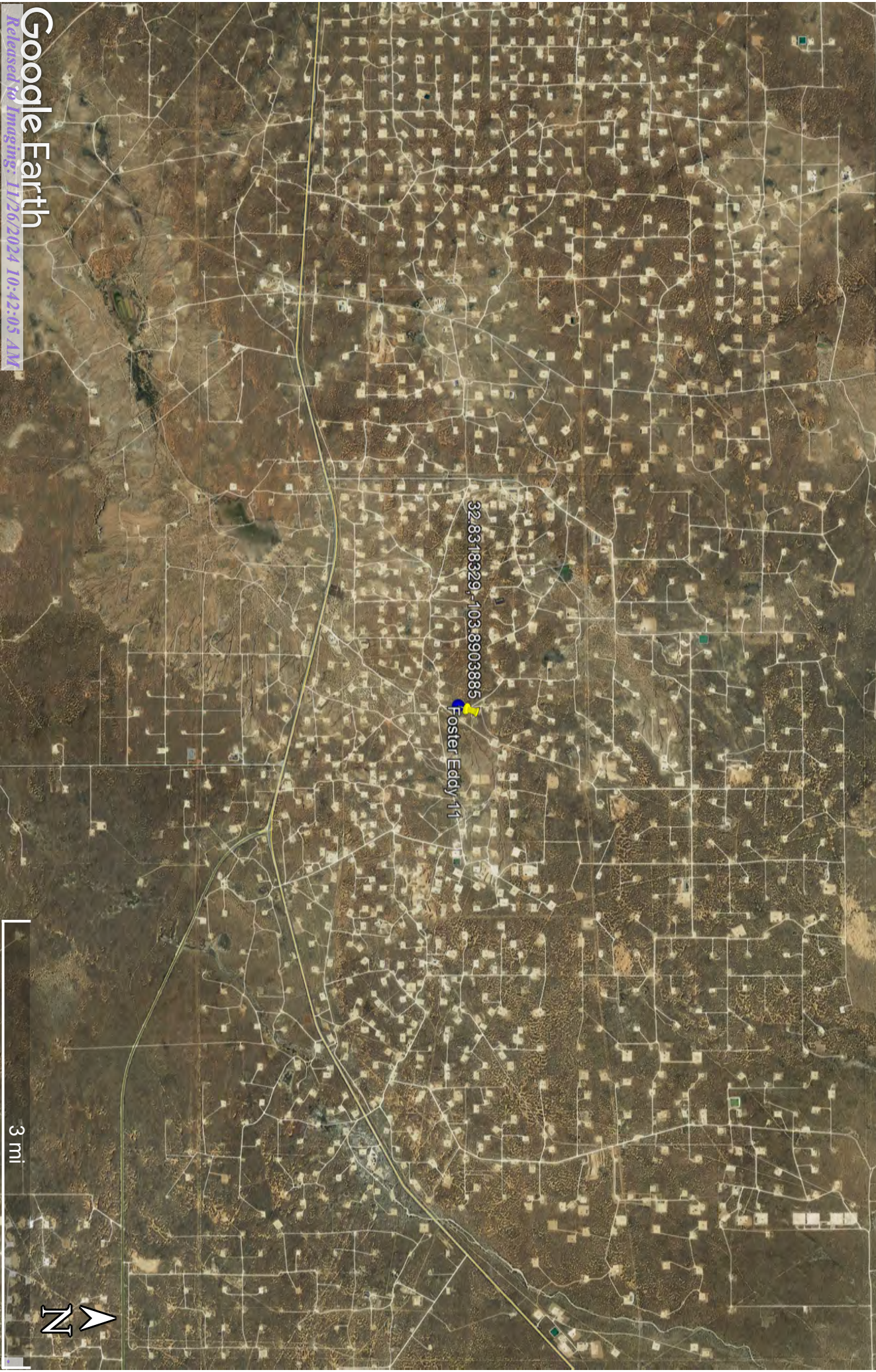
-  32.8318329,-103.8903885
-  Foster Eddy 11
-  High
-  Low
-  Medium

Spur Energy Partners

Foster Eddy 11
API # 30-015-26231
Eddy County, NM
Aerial Map

Legend

-  32.8318329,-103.8903885
-  Foster Eddy 11




32.8318329,-103.8903885
Foster Eddy 11




Spur Energy Partners

Foster Eddy #11
API# 30-015-26231
Eddy County, NM
Confirmation Map

Legend

 Excavation Areas

 Samples

Foster Eddy #11 32.8318329,-103.8903885





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 13235 POD1		RA	ED	1	1	1	21	17S	31E	604631	3632537	1012	102		
														Average Depth to Water:	--
														Minimum Depth:	--
														Maximum Depth:	--

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 603855.176

Northing (Y): 3633188.233

Radius: 1600

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.



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Largo loam, 1 to 5 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

LA—Largo loam, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w4y

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Largo and similar soils: 98 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Largo

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Calcareous alluvium

Typical profile

H1 - 0 to 4 inches: loam

H2 - 4 to 47 inches: silt loam

H3 - 47 to 65 inches: loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Map Unit Description: Largo loam, 1 to 5 percent slopes---Eddy Area, New Mexico

Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 1 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

Pajarito

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information



Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022





















Legend




SEE THIS 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
-----------------------------------	--

 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
 Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD	 NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS	 Effective LOMRs Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	 Channel, Culvert, or Storm Sewer  Levee, Dike, or Floodwall

 20.2 Water Surface Elevation	 8 Coastal Transect
 17.5 Base Flood Elevation Line (BFE)	 Limit of Study
 Jurisdiction Boundary	 Coastal Transect Baseline
OTHER FEATURES	 Profile Baseline  Hydrographic Feature

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 1/9/2023 at 12:33 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 unmoderized areas cannot be used for regulatory purposes.





Appendix C:

C-141

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

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

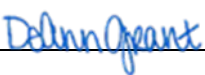
Name of Company: COG Operating LLC (OGRID #229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Foster Eddy #011	Facility Type: Wellhead
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-26231	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	17S	31E	1,650	South	2,160	East	Eddy

Latitude 32.8318329 Longitude -103.8903885 NAD83

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 1 bbl. Oil 22 bbl. Produced Water	Volume Recovered: 1 bbl. Oil 1 bbl. Produced Water
Source of Release: Hole in tubing	Date and Hour of Occurrence: August 11, 2018 7:00am	Date and Hour of Discovery: August 11, 2018 7:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
The release was caused by a hole in the tubing due to corrosion. The tubing will be replaced.		
Describe Area Affected and Cleanup Action Taken.*		
The release was on location and in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to 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.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant	Approved by Environmental Specialist: Maria Pruett	
Title: HSE Administrative Assistant	Approval Date: 08/16/18	Expiration Date: N/A
E-mail Address: agrant@concho.com	Conditions of Approval: N/A	Attached <input type="checkbox"/> 2RP-4921
Date: August 13, 2018	Phone: 432-253-4513	

* Attach Additional Sheets If Necessary

A#: pMAP1822870454

I#: nMAP1822870620

Incident ID	NMAP1822870620
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NMAP1822870620
District RP	
Facility ID	
Application ID	

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/27/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Incident ID	NMAP1822870620
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/27/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	NMAP1822870620
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/27/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



Appendix D:

Email Notification

Photographic Documentation

Monday, June 19, 2023 at 15:34:36 Mountain Daylight Time

Subject: Foster Eddy 11

Date: Thursday, April 13, 2023 at 12:26:32 PM Mountain Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Tristan Jones

All,

Good morning ! This is to inform you all we will be collecting confirmation samples at the Foster Eddy 11 ,04-17-23 at 9:00 AM . If you have any questions or concerns, please let me know.

Incident number ~ NMAP1822870620

Thank You,

Angel Peña

575-605-0773

Paragon Environmental LLC.

Monday, June 19, 2023 at 15:35:04 Mountain Daylight Time

Subject: Foster eddy 11

Date: Thursday, April 27, 2023 at 3:38:54 PM Mountain Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD

To All,

This is to inform you we will be obtaining additional confirmation samples at the Foster Eddy 11 on 5-2-23 at approximately 8 am.

Thank You,

Angel Peña

Field supervisor

575-605-0773

Paragon Environmental LLC.



Photographic Documentation

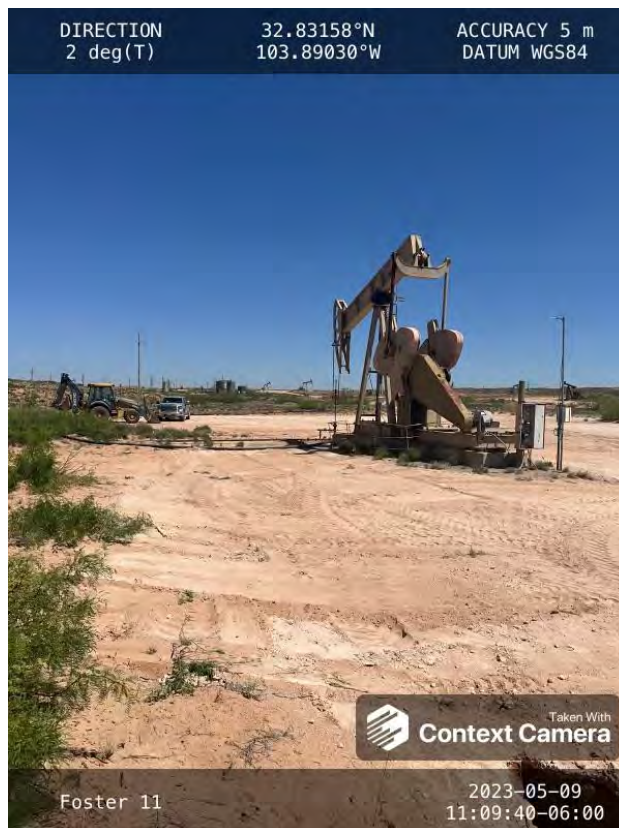
Before



Completed



Mistakenly,
excavation photos
were not taken due
to staff changes
during remediation.





Appendix E:
Laboratory Results



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

April 26, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: FOSTER EDDY 11

Enclosed are the results of analyses for samples received by the laboratory on 04/21/23 17:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 04/21/2023
Reported: 04/26/2023
Project Name: FOSTER EDDY 11
Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 04/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 B 1' (H231974-01)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: S - 2 B 1' (H231974-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: S - 3 B 1' (H231974-03)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: S - 4 B 1' (H231974-04)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2023	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 04/21/2023
Reported: 04/26/2023
Project Name: FOSTER EDDY 11
Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 04/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW - 1 (H231974-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/25/2023	ND	416	104	400	3.77		

Sample ID: SSW - 2 (H231974-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	04/25/2023	ND	416	104	400	3.77		

Sample ID: NSW - 1 (H231974-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	04/25/2023	ND	416	104	400	3.77		

Sample ID: NSW - 2 (H231974-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	04/25/2023	ND	416	104	400	3.77		

Sample ID: ESW - 1 (H231974-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/25/2023	ND	416	104	400	3.77		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 04/21/2023
Reported: 04/26/2023
Project Name: FOSTER EDDY 11
Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 04/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ESW - 2 (H231974-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/25/2023	ND	416	104	400	3.77		

Sample ID: WSW - 1 (H231974-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: WSW - 2 (H231974-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/25/2023	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



22

Page 7 of 7



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

May 08, 2023

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: FOSTER EDDY 11

Enclosed are the results of analyses for samples received by the laboratory on 05/03/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 05/03/2023
Reported: 05/08/2023
Project Name: FOSTER EDDY 11
Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 05/02/2023
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SSW - 2 (H232203-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/05/2023	ND	432	108	400	0.00		

Sample ID: WSW - 1 (H232203-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/05/2023	ND	416	104	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



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

December 14, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: FOSTER EDDY

Enclosed are the results of analyses for samples received by the laboratory on 12/09/22 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 0-6 (H225827-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62	
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09	
Total BTEX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	21.4	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 72.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.2 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 1 (H225827-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62		
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 2 (H225827-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62	
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 3 (H225827-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62		
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 4 (H225827-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62		
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 0-6 (H225827-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62	
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.1 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 1 (H225827-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.07	103	2.00	5.62		
Toluene*	<0.050	0.050	12/13/2022	ND	2.13	106	2.00	5.04		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.14	107	2.00	4.34		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.45	108	6.00	4.09		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 2 (H225827-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.1 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 3 (H225827-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146		
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 4 (H225827-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 0-6 (H225827-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146		
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 1 (H225827-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 2 (H225827-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 3 (H225827-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146		
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 4 (H225827-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 0-6 (H225827-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 1 (H225827-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 12/09/2022
Reported: 12/14/2022
Project Name: FOSTER EDDY
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 12/08/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 2 (H225827-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	193	96.6	200	0.774	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 3 (H225827-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146		
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 4 (H225827-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 0-6 (H225827-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 124 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 1 (H225827-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 2 (H225827-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 3 (H225827-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 4 (H225827-25)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 0-6 (H225827-26)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146		
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515		
Total BTX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 1 (H225827-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.146	
Toluene*	<0.050	0.050	12/13/2022	ND	2.24	112	2.00	1.76	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.27	114	2.00	0.911	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.85	114	6.00	0.515	
Total BTEx	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 2 (H225827-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 3 (H225827-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 4 (H225827-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64	
Total BTEX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 0-6 (H225827-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 1 (H225827-32)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 2 (H225827-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 127 % 45.3-161

Surrogate: 1-Chlorooctadecane 134 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 3 (H225827-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 4 (H225827-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64	
Total BTEX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 0-6 (H225827-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEx	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 1 (H225827-37)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 2 (H225827-38)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2022	ND	205	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	12/12/2022	ND	219	110	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	12/12/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 3 (H225827-39)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64		
Total BTX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	228	114	200	3.77	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	214	107	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 12/09/2022
 Reported: 12/14/2022
 Project Name: FOSTER EDDY
 Project Number: SPUR
 Project Location: RURAL EDDY

Sampling Date: 12/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 4 (H225827-40)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	1.98	99.0	2.00	8.25	
Toluene*	<0.050	0.050	12/13/2022	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.01	101	2.00	8.62	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.18	103	6.00	9.64	
Total BTX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	228	114	200	3.77	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	214	107	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2476				BILL TO		ANALYSIS REQUEST															
Company Name: Paragon Environmental				P.O. #:																	
Project Manager: Cason Spurlock				Company: Spur																	
Address: 5002 Carriage Rd				Attn:																	
City: Hobbs		State: NM		Zip: 88242														Address:			
Phone #: 575-631-6977		Fax #:		City:														State:		Zip:	
Project #:		Project Owner: Spur		Phone #:														Fax #:			
Project Name: Foster Eddy																		BTEX TPH Chlorides			
Project Location: Rural Eddy																					
Sampler Name: Angel O. Pena																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME					
								GROUNDWATER													
								WASTEWATER													
								SOIL													
								OIL													
								SLUDGE													
								OTHER:													
								ACID/BASE:													
								ICE / COOL													
								OTHER:													
H22582T														12/8							
1		S-1 0-6																			
2		S-1 1																			
3		S-1 2																			
4		S-1 3																			
5		S-1 4																			
6		S-2 0-6																			
7		S-2 1																			
8		S-2 2																			
9		S-2 3																			
10		S-2 4																			
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By: Angel O. Pena				Date: 12-9-22		Received By: Tamara Aldridge		Time: 1515		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:									
Relinquished By:				Date:		Received By:		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:									
Delivered By: (Circle One)				#13		Sample Condition		CHECKED BY: (Initials)													
Sampler - UPS - Bus - Other:				1.9c / 1.3c		<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		TO													
						<input type="checkbox"/> Yes <input type="checkbox"/> No															
						<input type="checkbox"/> Yes <input type="checkbox"/> No															

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(575) 393-2326 FAX (575) 393-2476

Company Name:	Paragon Environmental				
Project Manager:	Cason Spurlock				
Address:	5002 Carriage Rd				
City:	Hobbs	State:	NM	Zip:	88242
Phone #:	575-631-6977	Fax #:			
Project #:					
Project Name:	Foster Eddy	Project Owner:	SPUR		
Project Location:	Rural Eddy				
Sampler Name:	Austin & Anna				

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G/RAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BILL TO	ANALYSIS REQUEST	
	H225827																P.O. #:	
	11	S-3 O-6	4											12/18			Company:	SPUR
	12	S-3 1															Attn:	
	13	S-3 2															Address:	
	14	S-3 3															City:	
	15	S-3 4															State:	
	16	S-4 O-6															Zip:	
	17	S-4 1															Phone #:	
	18	S-4 2															Fax #:	
	19	S-4 3																
	20	S-4 4																

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Relinquished By:	Date:	Received By:	REMARKS:
Angeles Pena	12-9-22	Maura Aldridge	
	Time: 1515		
Relinquished By:	Date:	Received By:	
	Time:		
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	1.9c/1.3c	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) V-D

Phone Result:	Add'l Phone #:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Fax Result:	Add'l Fax #:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Paragon Environmental				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cason Spurlock				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPK</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																		
Address: 5002 Carriage Rd				Company: <i>SPUR</i>																						
City: Hobbs State: NM Zip: 88242				Attn:																						
Phone #: 575-631-6977 Fax #:				Address:																						
Project #: Project Owner: <i>SPUR</i>				City:																						
Project Name: <i>Foster Eddy</i>				State: Zip:																						
Project Location: <i>Rural Eddy</i>				Phone #:																						
Sampler Name: <i>Angel O. Pena</i>				Fax #:																						
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING																			
					GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
	<i>H225827</i>												<i>12/18</i>													
	<i>21</i>	<i>S-5</i>																								
	<i>22</i>	<i>S-5</i>																								
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	<i>25</i>	<i>S-5</i>																								
	<i>26</i>	<i>S-6</i>																								
	<i>27</i>	<i>S-6</i>																								
	<i>28</i>	<i>S-6</i>																								
	<i>29</i>	<i>S-6</i>																								
	<i>30</i>	<i>S-6</i>																								

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Relinquished By: <i>Angel O. Pena</i>	Date: <i>12-9-22</i> Time: <i>1515</i>	Received By: <i>Tamara...</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
			REMARKS:	
Delivered By: (Circle One)	<i>#113</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>1.9c / 1.3c</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>T.O.</i>	

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2476										BILL TO										ANALYSIS REQUEST									
Company Name: Paragon Environmental										P.O. #:																			
Project Manager: Cason Spurlock										Company: SPUR																			
Address: 5002 Carriage Rd										Attn:																			
City: Hobbs State: NM zip: 88242										Address:																			
Phone #: 575-631-6977 Fax #:										City:																			
Project #: Project Owner: SPUR										State: Zip:																			
Project Name: Foster Eddy										Phone #:																			
Project Location: Rural Cddy										Fax #:																			
Sampler Name: Angel O. Pena																													
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.																			
H205827																													
31 5-7																													
32 5-7																													
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Relinquished By: Angel O. Pena										Received By: [Signature]																			
Date: 12-9-22										Date: 12/18																			
Time: 1515										Time: 1218																			
Delivered By: (Circle One)										Sample Condition																			
Sampler - UPS - Bus - Other: 1.9c / 1.3c										Cool Intact																			
										Yes No																			
										Yes No																			
										CHECKED BY: [Signature]																			
										Phone Result: Yes No																			
										Fax Result: Yes No																			
										Add'l Phone #:																			
										Add'l Fax #:																			
										REMARKS:																			

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Appendix B

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 8/14/2023 8:50:02 PM

JOB DESCRIPTION

Foster Eddy #11
SDG NUMBER Eddy County, NM

JOB NUMBER

880-31594-1

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
8/14/2023 8:50:02 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Laboratory Job ID: 880-31594-1
SDG: Eddy County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	32

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Job ID: 880-31594-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31594-1

Receipt

The samples were received on 8/2/2023 1:21 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-4-0-6" (washout) (880-31594-1), S-4-6"-1' (washout) (880-31594-2), S-4-1'-2' (washout) (880-31594-3), S-4-2'-3' (washout) (880-31594-4), S-5-0-6" (washout) (880-31594-5), S-5-6"-1' (washout) (880-31594-6), S-5-1'-2' (washout) (880-31594-7), S-5-2'-3' (washout) (880-31594-8), S-6-0-6" (washout) (880-31594-9), S-6-6"-1' (washout) (880-31594-10), S-6-1'-2' (washout) (880-31594-11), S-6-2'-3' (washout) (880-31594-12), S-7-0-6" (washout) (880-31594-13), S-7-6"-1' (washout) (880-31594-14), S-7-1'-2' (washout) (880-31594-15), S-7-2'-3' (washout) (880-31594-16), S-8-0-6" (washout) (880-31594-17), S-8-6"-1' (washout) (880-31594-18), S-8-1'-2' (washout) (880-31594-19) and S-8-2'-3' (washout) (880-31594-20).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5-0-6" (washout) (880-31594-5) and (890-5046-A-1-F). Evidence of matrix interferences is not obvious.

Method 8021B: CCV was biased high for ethylbenzene, o-xylene, and m,p xylenes. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-59696/51)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59696 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-59696/33) and (CCV 880-59696/64).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59697 recovered below the lower control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59697/74).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59813 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59813/20).

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59651 and analytical batch 880-60035 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-60035/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-4-0-6" (washout) (880-31594-1), S-5-0-6" (washout) (880-31594-5), S-6-0-6" (washout) (880-31594-9), S-7-0-6" (washout) (880-31594-13), S-8-0-6" (washout) (880-31594-17), (CCV 880-60035/47), (CCV 880-60035/58), (LCS 880-59651/2-A), (LCSD 880-59651/3-A), (890-5020-A-7-E), (890-5020-A-7-H MS) and (890-5020-A-7-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-59651 and analytical batch 880-60035 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Case Narrative

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Job ID: 880-31594-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60035 recovered above the upper 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 880-60035/58).

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

HPLC/IC

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

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-4-0-6" (washout)

Lab Sample ID: 880-31594-1

Date Collected: 08/01/23 10:00

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		08/09/23 13:02	08/10/23 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/09/23 13:02	08/10/23 07:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/09/23 13:02	08/10/23 07:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.2		50.4	15.1	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.2	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1
Diesel Range Organics (Over C10-C28)	69.0	B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	08/08/23 15:22	08/14/23 00:38	1
o-Terphenyl	147	S1+	70 - 130	08/08/23 15:22	08/14/23 00:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.98	0.393	mg/Kg			08/04/23 13:11	1

Client Sample ID: S-4-6"-1' (washout)

Lab Sample ID: 880-31594-2

Date Collected: 08/01/23 10:10

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.96	0.392	mg/Kg			08/04/23 13:26	1

Client Sample ID: S-4-1'-2' (washout)

Lab Sample ID: 880-31594-3

Date Collected: 08/01/23 10:17

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		4.97	0.393	mg/Kg			08/04/23 13:31	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-4-2'-3' (washout)

Lab Sample ID: 880-31594-4

Date Collected: 08/01/23 10:25

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.6		5.02	0.397	mg/Kg			08/04/23 13:36	1

Client Sample ID: S-5-0-6" (washout)

Lab Sample ID: 880-31594-5

Date Collected: 08/01/23 10:40

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U **	0.00199	0.000383	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Ethylbenzene	<0.000563	U **	0.00199	0.000563	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
m-Xylene & p-Xylene	<0.00101	U **	0.00398	0.00101	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
o-Xylene	<0.000343	U **	0.00199	0.000343	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Xylenes, Total	<0.00101	U **	0.00398	0.00101	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/09/23 13:14	08/10/23 07:18	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130				08/09/23 13:14	08/10/23 07:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.2		50.4	15.1	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.0	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1
Diesel Range Organics (Over C10-C28)	21.2	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130				08/08/23 15:22	08/14/23 00:59	1
o-Terphenyl	138	S1+	70 - 130				08/08/23 15:22	08/14/23 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		5.03	0.397	mg/Kg			08/04/23 13:41	1

Client Sample ID: S-5-6"-1' (washout)

Lab Sample ID: 880-31594-6

Date Collected: 08/01/23 10:50

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		4.99	0.394	mg/Kg			08/04/23 13:56	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-5-1'-2' (washout)

Lab Sample ID: 880-31594-7

Date Collected: 08/01/23 10:55

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		5.00	0.395	mg/Kg			08/04/23 14:01	1

Client Sample ID: S-5-2'-3' (washout)

Lab Sample ID: 880-31594-8

Date Collected: 08/01/23 11:02

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	645		5.00	0.395	mg/Kg			08/04/23 14:06	1

Client Sample ID: S-6-0-6" (washout)

Lab Sample ID: 880-31594-9

Date Collected: 08/01/23 11:25

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/10/23 09:22	08/10/23 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	08/10/23 09:22	08/10/23 16:59	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/10/23 09:22	08/10/23 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.1		49.6	14.9	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.7	J B	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1
Diesel Range Organics (Over C10-C28)	21.4	J B	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130	08/08/23 15:22	08/14/23 01:21	1
o-Terphenyl	151	S1+	70 - 130	08/08/23 15:22	08/14/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.7		5.04	0.398	mg/Kg			08/04/23 14:11	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-6-6"-1' (washout)
Date Collected: 08/01/23 11:31
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-10
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.1		5.01	0.396	mg/Kg			08/04/23 14:16	1

Client Sample ID: S-6-1'-2' (washout)
Date Collected: 08/01/23 11:40
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		5.02	0.397	mg/Kg			08/04/23 14:21	1

Client Sample ID: S-6-2'-3' (washout)
Date Collected: 08/01/23 11:45
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-12
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.2		4.99	0.394	mg/Kg			08/04/23 14:36	1

Client Sample ID: S-7-0-6" (washout)
Date Collected: 08/01/23 12:20
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				08/10/23 09:22	08/10/23 17:20	1
1,4-Difluorobenzene (Surr)	115		70 - 130				08/10/23 09:22	08/10/23 17:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.8		49.8	14.9	mg/Kg			08/14/23 20:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.7	J B	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1
Diesel Range Organics (Over C10-C28)	23.1	J B	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130				08/08/23 15:22	08/14/23 02:03	1
o-Terphenyl	145	S1+	70 - 130				08/08/23 15:22	08/14/23 02:03	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-7-0-6" (washout)

Lab Sample ID: 880-31594-13

Date Collected: 08/01/23 12:20

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.4		4.96	0.392	mg/Kg			08/04/23 14:41	1

Client Sample ID: S-7-6"-1' (washout)

Lab Sample ID: 880-31594-14

Date Collected: 08/01/23 12:30

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.5		4.97	0.393	mg/Kg			08/04/23 14:56	1

Client Sample ID: S-7-1'-2' (washout)

Lab Sample ID: 880-31594-15

Date Collected: 08/01/23 12:37

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2		5.00	0.395	mg/Kg			08/04/23 15:01	1

Client Sample ID: S-7-2'-3' (washout)

Lab Sample ID: 880-31594-16

Date Collected: 08/01/23 12:46

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.8		4.98	0.393	mg/Kg			08/04/23 15:06	1

Client Sample ID: S-8-0-6" (washout)

Lab Sample ID: 880-31594-17

Date Collected: 08/01/23 13:15

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/10/23 09:22	08/10/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/10/23 09:22	08/10/23 18:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/10/23 09:22	08/10/23 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.2	J	49.7	14.9	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.0	J B	49.7	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:24	1
Diesel Range Organics (Over C10-C28)	18.2	J B	49.7	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:24	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-8-0-6" (washout)

Lab Sample ID: 880-31594-17

Date Collected: 08/01/23 13:15

Matrix: Solid

Date Received: 08/02/23 13:21

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)	<14.9	U	49.7	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130				08/08/23 15:22	08/14/23 02:24	1
o-Terphenyl	147	S1+	70 - 130				08/08/23 15:22	08/14/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		4.95	0.391	mg/Kg			08/04/23 15:10	1

Client Sample ID: S-8-6"-1' (washout)

Lab Sample ID: 880-31594-18

Date Collected: 08/01/23 13:25

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		4.98	0.393	mg/Kg			08/04/23 15:15	1

Client Sample ID: S-8-1'-2' (washout)

Lab Sample ID: 880-31594-19

Date Collected: 08/01/23 13:33

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		5.01	0.396	mg/Kg			08/04/23 15:20	1

Client Sample ID: S-8-2'-3' (washout)

Lab Sample ID: 880-31594-20

Date Collected: 08/01/23 13:41

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.0		5.03	0.397	mg/Kg			08/04/23 15:25	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy 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 (70-130)	DFBZ1 (70-130)
880-31594-1	S-4-0-6" (washout)	97	105
880-31594-5	S-5-0-6" (washout)	104	53 S1-
880-31594-9	S-6-0-6" (washout)	82	115
880-31594-13	S-7-0-6" (washout)	87	115
880-31594-17	S-8-0-6" (washout)	85	105
LCS 880-59758/1-A	Lab Control Sample	97	102
LCS 880-59759/1-A	Lab Control Sample	122	108
LCS 880-59819/1-A	Lab Control Sample	83	101
LCSD 880-59758/2-A	Lab Control Sample Dup	103	104
LCSD 880-59759/2-A	Lab Control Sample Dup	129	105
LCSD 880-59819/2-A	Lab Control Sample Dup	83	106
MB 880-59697/39	Method Blank	78	91
MB 880-59705/5-A	Method Blank	72	81
MB 880-59758/5-A	Method Blank	81	87
MB 880-59759/5-A	Method Blank	70	84
MB 880-59819/5-A	Method Blank	74	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31594-1	S-4-0-6" (washout)	174 S1+	147 S1+
880-31594-5	S-5-0-6" (washout)	164 S1+	138 S1+
880-31594-9	S-6-0-6" (washout)	178 S1+	151 S1+
880-31594-13	S-7-0-6" (washout)	170 S1+	145 S1+
880-31594-17	S-8-0-6" (washout)	176 S1+	147 S1+
LCS 880-59651/2-A	Lab Control Sample	125	113
LCSD 880-59651/3-A	Lab Control Sample Dup	130	118
MB 880-59651/1-A	Method Blank	150 S1+	138 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59697/39

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			08/09/23 22:34	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			08/09/23 22:34	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			08/09/23 22:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg			08/09/23 22:34	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			08/09/23 22:34	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			08/09/23 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		08/09/23 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130		08/09/23 22:34	1

Lab Sample ID: MB 880-59705/5-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 09:11	08/09/23 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	08/09/23 09:11	08/09/23 12:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/09/23 09:11	08/09/23 12:49	1

Lab Sample ID: MB 880-59758/5-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:02	08/10/23 01:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	08/09/23 13:02	08/10/23 01:59	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/09/23 13:02	08/10/23 01:59	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59758/1-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1049		mg/Kg		105	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.08797		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09531		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-59758/2-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1088		mg/Kg		109	70 - 130	4	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.09425		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130	8	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-59759/5-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:14	08/09/23 23:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	08/09/23 13:14	08/09/23 23:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	08/09/23 13:14	08/09/23 23:27	1

Lab Sample ID: LCS 880-59759/1-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1443	*+	mg/Kg		144	70 - 130
Toluene	0.100	0.1244		mg/Kg		124	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59759/1-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1419	*+	mg/Kg		142	70 - 130
m-Xylene & p-Xylene	0.200	0.3079	*+	mg/Kg		154	70 - 130
o-Xylene	0.100	0.1488	*+	mg/Kg		149	70 - 130

Surrogate	%Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-59759/2-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1358	*+	mg/Kg		136	70 - 130	6	35
Toluene	0.100	0.1220		mg/Kg		122	70 - 130	2	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2533		mg/Kg		127	70 - 130	19	35
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130	17	35

Surrogate	%Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-59819/5-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/10/23 09:22	08/10/23 13:50	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	08/10/23 09:22	08/10/23 13:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/10/23 09:22	08/10/23 13:50	1

Lab Sample ID: LCS 880-59819/1-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1180		mg/Kg		118	70 - 130
Toluene	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.08289		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1717		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59819/1-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08454		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-59819/2-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1211		mg/Kg		121	70 - 130	3	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	0	35
Ethylbenzene	0.100	0.08224		mg/Kg		82	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1697		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08350		mg/Kg		84	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-59651/1-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.90	J	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1
Diesel Range Organics (Over C10-C28)	15.38	J	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	08/08/23 15:22	08/13/23 20:13	1
o-Terphenyl	138	S1+	70 - 130	08/08/23 15:22	08/13/23 20:13	1

Lab Sample ID: LCS 880-59651/2-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	988.1		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	845.9		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59651/2-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59651

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-59651/3-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1005		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	882.3		mg/Kg		88	70 - 130	4	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59123/1-A

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/04/23 12:56	1

Lab Sample ID: LCS 880-59123/2-A

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-59123/3-A

Matrix: Solid

Analysis Batch: 59305

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	239.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-31594-1 MS

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: S-4-0-6" (washout)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	46.0		249	273.9		mg/Kg		91	90 - 110

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-31594-1 MSD					Client Sample ID: S-4-0-6" (washout)							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 59305												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	46.0		249	274.5		mg/Kg		92	90 - 110	0	20	

Lab Sample ID: 880-31594-11 MS					Client Sample ID: S-6-1'-2' (washout)							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 59305												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	69.5		251	298.1		mg/Kg		91	90 - 110			

Lab Sample ID: 880-31594-11 MSD					Client Sample ID: S-6-1'-2' (washout)							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 59305												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	69.5		251	299.5		mg/Kg		92	90 - 110	0	20	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 59696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8021B	59759
MB 880-59705/5-A	Method Blank	Total/NA	Solid	8021B	59705
MB 880-59759/5-A	Method Blank	Total/NA	Solid	8021B	59759
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	8021B	59759
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59759

Analysis Batch: 59697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8021B	59758
MB 880-59697/39	Method Blank	Total/NA	Solid	8021B	
MB 880-59758/5-A	Method Blank	Total/NA	Solid	8021B	59758
LCS 880-59758/1-A	Lab Control Sample	Total/NA	Solid	8021B	59758
LCSD 880-59758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59758

Prep Batch: 59705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59705/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59758/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59758/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59758/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 59759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59759/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 59813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8021B	59819
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8021B	59819
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8021B	59819
MB 880-59819/5-A	Method Blank	Total/NA	Solid	8021B	59819
LCS 880-59819/1-A	Lab Control Sample	Total/NA	Solid	8021B	59819
LCSD 880-59819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59819

Prep Batch: 59819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	5030B	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	5030B	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59819/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59819/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59819/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

GC Semi VOA

Prep Batch: 59651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015NM Prep	
MB 880-59651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015B NM	59651
MB 880-59651/1-A	Method Blank	Total/NA	Solid	8015B NM	59651
LCS 880-59651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59651
LCSD 880-59651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59651

Analysis Batch: 60212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-2	S-4-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-3	S-4-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-4	S-4-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-5	S-5-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-6	S-5-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-7	S-5-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-8	S-5-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-9	S-6-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-10	S-6-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-11	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-12	S-6-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-13	S-7-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-14	S-7-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-15	S-7-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-16	S-7-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-17	S-8-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-18	S-8-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-19	S-8-1'-2' (washout)	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 59123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-20	S-8-2'-3' (washout)	Soluble	Solid	DI Leach	
MB 880-59123/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59123/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59123/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31594-1 MS	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-1 MSD	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-11 MS	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-11 MSD	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	

Analysis Batch: 59305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-2	S-4-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-3	S-4-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-4	S-4-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-5	S-5-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-6	S-5-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-7	S-5-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-8	S-5-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-9	S-6-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-10	S-6-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-11	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-12	S-6-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-13	S-7-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-14	S-7-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-15	S-7-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-16	S-7-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-17	S-8-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-18	S-8-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-19	S-8-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-20	S-8-2'-3' (washout)	Soluble	Solid	300.0	59123
MB 880-59123/1-A	Method Blank	Soluble	Solid	300.0	59123
LCS 880-59123/2-A	Lab Control Sample	Soluble	Solid	300.0	59123
LCSD 880-59123/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59123
880-31594-1 MS	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-1 MSD	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-11 MS	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-11 MSD	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-4-0-6" (washout)
Date Collected: 08/01/23 10:00
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-1
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			5.04 g	5 mL	59758	08/09/23 13:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59697	08/10/23 07:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:11	CH	EET MID

Client Sample ID: S-4-6"-1' (washout)
Date Collected: 08/01/23 10:10
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-2
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			5.04 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:26	CH	EET MID

Client Sample ID: S-4-1'-2' (washout)
Date Collected: 08/01/23 10:17
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-3
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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:31	CH	EET MID

Client Sample ID: S-4-2'-3' (washout)
Date Collected: 08/01/23 10:25
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-4
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			4.98 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:36	CH	EET MID

Client Sample ID: S-5-0-6" (washout)
Date Collected: 08/01/23 10:40
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-5
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			5.02 g	5 mL	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 07:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 00:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:41	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-5-6"-1' (washout)
Date Collected: 08/01/23 10:50
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-6
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			5.01 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:56	CH	EET MID

Client Sample ID: S-5-1'-2' (washout)
Date Collected: 08/01/23 10:55
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-7
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 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:01	CH	EET MID

Client Sample ID: S-5-2'-3' (washout)
Date Collected: 08/01/23 11:02
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-8
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 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:06	CH	EET MID

Client Sample ID: S-6-0-6" (washout)
Date Collected: 08/01/23 11:25
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-9
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			5.03 g	5 mL	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:11	CH	EET MID

Client Sample ID: S-6-6"-1' (washout)
Date Collected: 08/01/23 11:31
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-10
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			4.99 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:16	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-6-1'-2' (washout)

Date Collected: 08/01/23 11:40

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-11

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			4.98 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:21	CH	EET MID

Client Sample ID: S-6-2'-3' (washout)

Date Collected: 08/01/23 11:45

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-12

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:36	CH	EET MID

Client Sample ID: S-7-0-6" (washout)

Date Collected: 08/01/23 12:20

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-13

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			4.98 g	5 mL	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:41	CH	EET MID

Client Sample ID: S-7-6"-1' (washout)

Date Collected: 08/01/23 12:30

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-14

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:56	CH	EET MID

Client Sample ID: S-7-1'-2' (washout)

Date Collected: 08/01/23 12:37

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-15

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 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:01	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Client Sample ID: S-7-2'-3' (washout)
Date Collected: 08/01/23 12:46
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-16
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			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:06	CH	EET MID

Client Sample ID: S-8-0-6" (washout)
Date Collected: 08/01/23 13:15
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-17
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	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:10	CH	EET MID

Client Sample ID: S-8-6"-1' (washout)
Date Collected: 08/01/23 13:25
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-18
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			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:15	CH	EET MID

Client Sample ID: S-8-1'-2' (washout)
Date Collected: 08/01/23 13:33
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-19
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			4.99 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:20	CH	EET MID

Client Sample ID: S-8-2'-3' (washout)
Date Collected: 08/01/23 13:41
Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-20
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			4.97 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:25	CH	EET MID

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy 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

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Method Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

Laboratory References:

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

Sample Summary

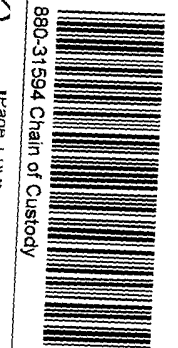
Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-31594-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31594-1	S-4-0-6" (washout)	Solid	08/01/23 10:00	08/02/23 13:21
880-31594-2	S-4-6"-1' (washout)	Solid	08/01/23 10:10	08/02/23 13:21
880-31594-3	S-4-1'-2' (washout)	Solid	08/01/23 10:17	08/02/23 13:21
880-31594-4	S-4-2'-3' (washout)	Solid	08/01/23 10:25	08/02/23 13:21
880-31594-5	S-5-0-6" (washout)	Solid	08/01/23 10:40	08/02/23 13:21
880-31594-6	S-5-6"-1' (washout)	Solid	08/01/23 10:50	08/02/23 13:21
880-31594-7	S-5-1'-2' (washout)	Solid	08/01/23 10:55	08/02/23 13:21
880-31594-8	S-5-2'-3' (washout)	Solid	08/01/23 11:02	08/02/23 13:21
880-31594-9	S-6-0-6" (washout)	Solid	08/01/23 11:25	08/02/23 13:21
880-31594-10	S-6-6"-1' (washout)	Solid	08/01/23 11:31	08/02/23 13:21
880-31594-11	S-6-1'-2' (washout)	Solid	08/01/23 11:40	08/02/23 13:21
880-31594-12	S-6-2'-3' (washout)	Solid	08/01/23 11:45	08/02/23 13:21
880-31594-13	S-7-0-6" (washout)	Solid	08/01/23 12:20	08/02/23 13:21
880-31594-14	S-7-6"-1' (washout)	Solid	08/01/23 12:30	08/02/23 13:21
880-31594-15	S-7-1'-2' (washout)	Solid	08/01/23 12:37	08/02/23 13:21
880-31594-16	S-7-2'-3' (washout)	Solid	08/01/23 12:46	08/02/23 13:21
880-31594-17	S-8-0-6" (washout)	Solid	08/01/23 13:15	08/02/23 13:21
880-31594-18	S-8-6"-1' (washout)	Solid	08/01/23 13:25	08/02/23 13:21
880-31594-19	S-8-1'-2' (washout)	Solid	08/01/23 13:33	08/02/23 13:21
880-31594-20	S-8-2'-3' (washout)	Solid	08/01/23 13:41	08/02/23 13:21

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Chain of Custody Record



Sampler <i>John Nixon</i>		Lab PM Bulles John		Carrier Tracking No.	
Phone: <i>432-294-9547</i>		E-Mail John.Bulles@et.eurofinsus.com		State of Origin <i>NM</i>	
PMSID:		Job #		Page 1 of 4	
Due Date Requested:		Analysis Requested		Preservation Codes	
TAT Requested (days): <i>Standard</i>				A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2OAS E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Ancher S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice Acetone U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		Total Number of containers	
PO #: 30190445-02		Perform MS/MSD (Yes or No)		Special Instructions/Note	
WO #:		8015MOD_NM Full TPH			
Project #: 88001848		8021B - BTEx			
SSOW#:		300_ORGFM_28D Chloride			
Project Name: Justin Nixon@arcadis.com					
Foster Eddy #11					
Site: <i>Eddy County, NM</i>					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab, RT=Return, Asch)	Matrix (W=water, S=solid, O=organic, A=air)
<i>S-4-0-6" (wash out)</i>		<i>8-1-23</i>	<i>1000</i>	<i>G</i>	<i>Solid</i>
<i>S-4-6"-1" (wash out)</i>			<i>1010</i>		<i>Solid</i>
<i>S-4-1'-2" (wash out)</i>			<i>1017</i>		<i>Solid</i>
<i>S-4-2'-3" (wash out)</i>			<i>1025</i>		<i>Solid</i>
<i>S-5-0-6" (wash out)</i>			<i>1040</i>		<i>Solid</i>
<i>S-5-6"-1" (wash out)</i>			<i>1050</i>		<i>Solid</i>
<i>S-5-1'-2" (wash out)</i>			<i>1055</i>		<i>Solid</i>
<i>S-5-2'-3" (wash out)</i>			<i>1102</i>		<i>Solid</i>
<i>S-6-0-6" (wash out)</i>			<i>1125</i>		<i>Solid</i>
<i>S-6-6"-1" (wash out)</i>			<i>1131</i>		<i>Solid</i>
<i>S-6-1'-2" (wash out)</i>			<i>1140</i>		<i>Solid</i>
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by		Date	Time	Method of Shipment	
Relinquished by <i>[Signature]</i>		<i>8-2-23</i>	<i>1325</i>	Received by <i>[Signature]</i>	
Relinquished by		Date/Time:	Company	Received by	
Relinquished by		Date/Time:	Company	Received by	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	
				<i>4.3/4.0</i>	

Chain of Custody Record

Chain of Custody Record

30 96 36360 AUG

8/14/2023

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-31594-1
SDG Number: Eddy County, NM

Login Number: 31594

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 10/3/2023 9:33:46 AM Revision 1

JOB DESCRIPTION

Foster Eddy #11
SDG NUMBER Eddy County, NM

JOB NUMBER

880-33439-1

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



Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Generated
10/3/2023 9:33:46 AM
Revision 1

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Laboratory Job ID: 880-33439-1
SDG: Eddy County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	9
Surrogate Summary	29
QC Sample Results	31
QC Association Summary	43
Lab Chronicle	51
Certification Summary	61
Method Summary	62
Sample Summary	63
Chain of Custody	64
Receipt Checklists	66

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
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.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Eurofins Midland

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Case Narrative

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Job ID: 880-33439-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-31594-1**

REVISION

The report being provided is a revision of the original report sent on 8/14/2023. The report (revision 1) is being revised due to revised report to re-run Sample 5 per client request for verification.

Receipt

The samples were received on 8/2/2023 1:21 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-4-0-6" (washout) (880-31594-1), S-4-6"-1' (washout) (880-31594-2), S-4-1'-2' (washout) (880-31594-3), S-4-2'-3' (washout) (880-31594-4), S-5-0-6" (washout) (880-31594-5), S-5-6"-1' (washout) (880-31594-6), S-5-1'-2' (washout) (880-31594-7), S-5-2'-3' (washout) (880-31594-8), S-6-0-6" (washout) (880-31594-9), S-6-6"-1' (washout) (880-31594-10), S-6-1'-2' (washout) (880-31594-11), S-6-2'-3' (washout) (880-31594-12), S-7-0-6" (washout) (880-31594-13), S-7-6"-1' (washout) (880-31594-14), S-7-1'-2' (washout) (880-31594-15), S-7-2'-3' (washout) (880-31594-16), S-8-0-6" (washout) (880-31594-17), S-8-6"-1' (washout) (880-31594-18), S-8-1'-2' (washout) (880-31594-19) and S-8-2'-3' (washout) (880-31594-20).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5-0-6" (washout) (880-31594-5) and (890-5046-A-1-F). Evidence of matrix interferences is not obvious.

Method 8021B: CCV was biased high for ethylbenzene, o-xylene, and m,p xylenes. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-59696/51)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59696 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-59696/33) and (CCV 880-59696/64).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59697 recovered below the lower control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59697/74).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59813 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59813/20).

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59651 and analytical batch 880-60035 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-60035/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-4-0-6" (washout) (880-31594-1), S-5-0-6" (washout) (880-31594-5), S-6-0-6" (washout) (880-31594-9), S-7-0-6" (washout) (880-31594-13), S-8-0-6" (washout) (880-31594-17), (CCV 880-60035/47), (CCV 880-60035/58), (LCS 880-59651/2-A), (LCS 880-59651/3-A), (890-5020-A-7-E),

Case Narrative

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Job ID: 880-33439-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

(890-5020-A-7-H MS) and (890-5020-A-7-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-59651 and analytical batch 880-60035 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60035 recovered above the upper 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 880-60035/58).

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.

Narrative

Job Narrative
880-33439-1

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 9/20/2023 9:15 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-5A-S-0"-6" (880-33439-1), S-5A-S-6"-1' (880-33439-2), S-5A-S-1'-2' (880-33439-3), S-5A-S-2'-3' (880-33439-4), S-5N-S-0"-6" (880-33439-5), S-5N-S-6"-1' (880-33439-6), S-5N-S-1'-2' (880-33439-7), S-5N-S-2'-3' (880-33439-8), S-5E-S-0"-6" (880-33439-9), S-5E-S-6"-1' (880-33439-10), S-5E-S-1'-2' (880-33439-11), S-5E-S-2'-3' (880-33439-12), S-5W-S-0"-6" (880-33439-13), S-5W-S-6"-1' (880-33439-14), S-5W-S-1'-2' (880-33439-15), S-5W-S-2'-3' (880-33439-16), S-5S-S-0"-6" (880-33439-17), S-5S-S-6"-1' (880-33439-18), S-5S-S-1'-2' (880-33439-19) and S-5S-S-2'-3' (880-33439-20).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5A-S-0"-6" (880-33439-1), S-5A-S-1'-2' (880-33439-3), S-5A-S-2'-3' (880-33439-4), S-5N-S-6"-1' (880-33439-6), S-5N-S-1'-2' (880-33439-7), S-5E-S-0"-6" (880-33439-9), S-5E-S-6"-1' (880-33439-10) and S-5E-S-1'-2' (880-33439-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62875 and analytical batch 880-63151 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 8021B: The continuing calibration verification (CCV) associated with batch 880-63151 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data

Case Narrative

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Job ID: 880-33439-1 (Continued)

Laboratory: Eurofins Midland (Continued)

have been reported. The associated sample is impacted: (CCV 880-63151/21).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63153 and 880-63199 and analytical batch 880-63184 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5E-S-2'-3' (880-33439-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63094 and analytical batch 880-63185 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5A-S-0"-6" (880-33439-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63185 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-62874 and analytical batch 880-62863 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-5A-S-0"-6" (880-33439-1), S-5A-S-6"-1' (880-33439-2), S-5A-S-1'-2' (880-33439-3), S-5A-S-2'-3' (880-33439-4), S-5N-S-0"-6" (880-33439-5), S-5N-S-6"-1' (880-33439-6), S-5N-S-1'-2' (880-33439-7), S-5N-S-2'-3' (880-33439-8), S-5E-S-0"-6" (880-33439-9), S-5E-S-6"-1' (880-33439-10), (880-33439-A-1-H MS) and (880-33439-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-5E-S-1'-2' (880-33439-11), S-5E-S-2'-3' (880-33439-12), S-5W-S-0"-6" (880-33439-13), S-5W-S-6"-1' (880-33439-14), S-5W-S-1'-2' (880-33439-15), S-5W-S-2'-3' (880-33439-16), S-5S-S-0"-6" (880-33439-17), S-5S-S-6"-1' (880-33439-18), S-5S-S-1'-2' (880-33439-19) and S-5S-S-2'-3' (880-33439-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-62863/20), (CCV 880-62863/31), (CCV 880-62863/5) and (LCS 880-62874/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-62874 and analytical batch 880-62863 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: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-62874 and analytical batch 880-62863 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62897 and analytical batch 880-63204 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.

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-4-0-6" (washout)

Lab Sample ID: 880-31594-1

Date Collected: 08/01/23 10:00

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/09/23 13:02	08/10/23 07:49	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		08/09/23 13:02	08/10/23 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/09/23 13:02	08/10/23 07:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/09/23 13:02	08/10/23 07:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.2		50.4	15.1	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.2	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1
Diesel Range Organics (Over C10-C28)	69.0	B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	08/08/23 15:22	08/14/23 00:38	1
o-Terphenyl	147	S1+	70 - 130	08/08/23 15:22	08/14/23 00:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.98	0.393	mg/Kg			08/04/23 13:11	1

Client Sample ID: S-4-6"-1' (washout)

Lab Sample ID: 880-31594-2

Date Collected: 08/01/23 10:10

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.96	0.392	mg/Kg			08/04/23 13:26	1

Client Sample ID: S-4-1'-2' (washout)

Lab Sample ID: 880-31594-3

Date Collected: 08/01/23 10:17

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		4.97	0.393	mg/Kg			08/04/23 13:31	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-4-2'-3' (washout)

Lab Sample ID: 880-31594-4

Date Collected: 08/01/23 10:25

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.6		5.02	0.397	mg/Kg			08/04/23 13:36	1

Client Sample ID: S-5-0-6" (washout)

Lab Sample ID: 880-31594-5

Date Collected: 08/01/23 10:40

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *	0.00199	0.000383	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Ethylbenzene	<0.000563	U *	0.00199	0.000563	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
m-Xylene & p-Xylene	<0.00101	U *	0.00398	0.00101	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
o-Xylene	<0.000343	U *	0.00199	0.000343	mg/Kg		08/09/23 13:14	08/10/23 07:18	1
Xylenes, Total	<0.00101	U *	0.00398	0.00101	mg/Kg		08/09/23 13:14	08/10/23 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/09/23 13:14	08/10/23 07:18	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130	08/09/23 13:14	08/10/23 07:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.2		50.4	15.1	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.0	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1
Diesel Range Organics (Over C10-C28)	21.2	J B	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/08/23 15:22	08/14/23 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	08/08/23 15:22	08/14/23 00:59	1
o-Terphenyl	138	S1+	70 - 130	08/08/23 15:22	08/14/23 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		5.03	0.397	mg/Kg			08/04/23 13:41	1

Client Sample ID: S-5-6"-1' (washout)

Lab Sample ID: 880-31594-6

Date Collected: 08/01/23 10:50

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		4.99	0.394	mg/Kg			08/04/23 13:56	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5-1'-2' (washout)

Lab Sample ID: 880-31594-7

Date Collected: 08/01/23 10:55

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		5.00	0.395	mg/Kg			08/04/23 14:01	1

Client Sample ID: S-5-2'-3' (washout)

Lab Sample ID: 880-31594-8

Date Collected: 08/01/23 11:02

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	626		5.01	0.396	mg/Kg			08/23/23 14:55	1

Client Sample ID: S-6-0-6" (washout)

Lab Sample ID: 880-31594-9

Date Collected: 08/01/23 11:25

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/10/23 09:22	08/10/23 16:59	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/10/23 09:22	08/10/23 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	08/10/23 09:22	08/10/23 16:59	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/10/23 09:22	08/10/23 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.1		49.6	14.9	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.7	J B	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1
Diesel Range Organics (Over C10-C28)	21.4	J B	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/08/23 15:22	08/14/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130	08/08/23 15:22	08/14/23 01:21	1
o-Terphenyl	151	S1+	70 - 130	08/08/23 15:22	08/14/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.7		5.04	0.398	mg/Kg			08/04/23 14:11	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-6-6"-1' (washout)

Lab Sample ID: 880-31594-10

Date Collected: 08/01/23 11:31

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.1		5.01	0.396	mg/Kg			08/04/23 14:16	1

Client Sample ID: S-6-1'-2' (washout)

Lab Sample ID: 880-31594-11

Date Collected: 08/01/23 11:40

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		5.02	0.397	mg/Kg			08/04/23 14:21	1

Client Sample ID: S-6-2'-3' (washout)

Lab Sample ID: 880-31594-12

Date Collected: 08/01/23 11:45

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.2		4.99	0.394	mg/Kg			08/04/23 14:36	1

Client Sample ID: S-7-0-6" (washout)

Lab Sample ID: 880-31594-13

Date Collected: 08/01/23 12:20

Matrix: Solid

Date Received: 08/02/23 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/10/23 09:22	08/10/23 17:20	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/10/23 09:22	08/10/23 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/10/23 09:22	08/10/23 17:20	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/10/23 09:22	08/10/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.8		49.8	14.9	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.7	J B	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1
Diesel Range Organics (Over C10-C28)	23.1	J B	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130	08/08/23 15:22	08/14/23 02:03	1
o-Terphenyl	145	S1+	70 - 130	08/08/23 15:22	08/14/23 02:03	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-7-0-6" (washout)

Date Collected: 08/01/23 12:20

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-13

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.4		4.96	0.392	mg/Kg			08/04/23 14:41	1

Client Sample ID: S-7-6"-1' (washout)

Date Collected: 08/01/23 12:30

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-14

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.5		4.97	0.393	mg/Kg			08/04/23 14:56	1

Client Sample ID: S-7-1'-2' (washout)

Date Collected: 08/01/23 12:37

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-15

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2		5.00	0.395	mg/Kg			08/04/23 15:01	1

Client Sample ID: S-7-2'-3' (washout)

Date Collected: 08/01/23 12:46

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-16

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.8		4.98	0.393	mg/Kg			08/04/23 15:06	1

Client Sample ID: S-8-0-6" (washout)

Date Collected: 08/01/23 13:15

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/10/23 09:22	08/10/23 18:44	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/10/23 09:22	08/10/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/10/23 09:22	08/10/23 18:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/10/23 09:22	08/10/23 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.2	J	49.7	14.9	mg/Kg			08/14/23 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.0	J B	49.7	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:24	1
Diesel Range Organics (Over C10-C28)	18.2	J B	49.7	14.9	mg/Kg		08/08/23 15:22	08/14/23 02:24	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-8-0-6" (washout)

Lab Sample ID: 880-31594-17

Date Collected: 08/01/23 13:15

Matrix: Solid

Date Received: 08/02/23 13:21

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)	<14.9	U	49.7	14.9	mg/Kg	-	08/08/23 15:22	08/14/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130				08/08/23 15:22	08/14/23 02:24	1
o-Terphenyl	147	S1+	70 - 130				08/08/23 15:22	08/14/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		4.95	0.391	mg/Kg	-		08/04/23 15:10	1

Client Sample ID: S-8-6"-1' (washout)

Lab Sample ID: 880-31594-18

Date Collected: 08/01/23 13:25

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		4.98	0.393	mg/Kg	-		08/04/23 15:15	1

Client Sample ID: S-8-1'-2' (washout)

Lab Sample ID: 880-31594-19

Date Collected: 08/01/23 13:33

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		5.01	0.396	mg/Kg	-		08/04/23 15:20	1

Client Sample ID: S-8-2'-3' (washout)

Lab Sample ID: 880-31594-20

Date Collected: 08/01/23 13:41

Matrix: Solid

Date Received: 08/02/23 13:21

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.0		5.03	0.397	mg/Kg	-		08/04/23 15:25	1

Client Sample ID: S-5A-S-0"-6"

Lab Sample ID: 880-33439-1

Date Collected: 09/19/23 12:00

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
Ethylbenzene	0.00109	J	0.00200	0.000566	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/22/23 14:56	09/25/23 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				09/22/23 14:56	09/25/23 21:42	1
1,4-Difluorobenzene (Surr)	111		70 - 130				09/22/23 14:56	09/25/23 21:42	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5A-S-0"-6"

Lab Sample ID: 880-33439-1

Date Collected: 09/19/23 12:00

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.4	J	49.8	14.9	mg/Kg			09/20/23 12:25	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	<14.9	U *1	49.8	14.9	mg/Kg		09/20/23 09:36	09/20/23 12:25	1
Diesel Range Organics (Over C10-C28)	23.4	J B	49.8	14.9	mg/Kg		09/20/23 09:36	09/20/23 12:25	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		09/20/23 09:36	09/20/23 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				09/20/23 09:36	09/20/23 12:25	1
o-Terphenyl	137	S1+	70 - 130				09/20/23 09:36	09/20/23 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	327	F1	4.96	0.392	mg/Kg			09/24/23 14:22	1

Client Sample ID: S-5A-S-6"-1'

Lab Sample ID: 880-33439-2

Date Collected: 09/19/23 12:10

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				09/20/23 09:43	09/24/23 17:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130				09/20/23 09:43	09/24/23 17:51	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	U	50.5	15.1	mg/Kg			09/20/23 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U *1	50.5	15.1	mg/Kg		09/20/23 09:36	09/20/23 13:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.5	15.1	mg/Kg		09/20/23 09:36	09/20/23 13:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		09/20/23 09:36	09/20/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				09/20/23 09:36	09/20/23 13:30	1
o-Terphenyl	138	S1+	70 - 130				09/20/23 09:36	09/20/23 13:30	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5A-S-6"-1'

Lab Sample ID: 880-33439-2

Date Collected: 09/19/23 12:10

Matrix: Solid

Date Received: 09/20/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		4.98	0.393	mg/Kg			09/24/23 14:39	1

Client Sample ID: S-5A-S-1'-2'

Lab Sample ID: 880-33439-3

Date Collected: 09/19/23 12:20

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				09/20/23 09:43	09/24/23 18:12	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				09/20/23 09:43	09/24/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.1	15.0	mg/Kg			09/20/23 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 13:51	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 13:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				09/20/23 09:36	09/20/23 13:51	1
o-Terphenyl	134	S1+	70 - 130				09/20/23 09:36	09/20/23 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		4.99	0.394	mg/Kg			09/24/23 14:45	1

Client Sample ID: S-5A-S-2'-3'

Lab Sample ID: 880-33439-4

Date Collected: 09/19/23 12:25

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		09/20/23 09:43	09/24/23 18:32	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		09/20/23 09:43	09/24/23 18:32	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		09/20/23 09:43	09/24/23 18:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:32	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		09/20/23 09:43	09/24/23 18:32	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:32	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5A-S-2'-3'

Lab Sample ID: 880-33439-4

Date Collected: 09/19/23 12:25

Matrix: Solid

Date Received: 09/20/23 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/20/23 09:43	09/24/23 18:32	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	09/20/23 09:43	09/24/23 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.2	15.0	mg/Kg			09/20/23 14:13	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	<15.0	U *1	50.2	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.2	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	09/20/23 09:36	09/20/23 14:13	1
o-Terphenyl	141	S1+	70 - 130	09/20/23 09:36	09/20/23 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		5.01	0.396	mg/Kg			09/24/23 14:51	1

Client Sample ID: S-5N-S-0"-6"

Lab Sample ID: 880-33439-5

Date Collected: 09/19/23 12:40

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		09/20/23 09:43	09/24/23 18:53	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		09/20/23 09:43	09/24/23 18:53	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		09/20/23 09:43	09/24/23 18:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:53	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		09/20/23 09:43	09/24/23 18:53	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		09/20/23 09:43	09/24/23 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/20/23 09:43	09/24/23 18:53	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/20/23 09:43	09/24/23 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			09/20/23 14:35	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	<15.0	U *1	49.9	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		09/20/23 09:36	09/20/23 14:35	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5N-S-0"-6"

Lab Sample ID: 880-33439-5

Date Collected: 09/19/23 12:40

Matrix: Solid

Date Received: 09/20/23 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	09/20/23 09:36	09/20/23 14:35	1
o-Terphenyl	144	S1+	70 - 130	09/20/23 09:36	09/20/23 14:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.02	0.397	mg/Kg			09/24/23 14:57	1

Client Sample ID: S-5N-S-6"-1'

Lab Sample ID: 880-33439-6

Date Collected: 09/19/23 12:50

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				09/20/23 09:43	09/24/23 19:13	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				09/20/23 09:43	09/24/23 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.5	14.9	mg/Kg			09/20/23 14:58	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	<14.9	U *1	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 14:58	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 14:58	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				09/20/23 09:36	09/20/23 14:58	1
o-Terphenyl	146	S1+	70 - 130				09/20/23 09:36	09/20/23 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.97	0.393	mg/Kg			09/24/23 15:14	1

Client Sample ID: S-5N-S-1'-2'

Lab Sample ID: 880-33439-7

Date Collected: 09/19/23 13:00

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		09/20/23 09:43	09/24/23 19:33	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		09/20/23 09:43	09/24/23 19:33	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		09/20/23 09:43	09/24/23 19:33	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5N-S-1'-2'

Lab Sample ID: 880-33439-7

Date Collected: 09/19/23 13:00

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 19:33	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		09/20/23 09:43	09/24/23 19:33	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		09/20/23 09:43	09/24/23 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				09/20/23 09:43	09/24/23 19:33	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				09/20/23 09:43	09/24/23 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.5	14.9	mg/Kg			09/20/23 15:19	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	<14.9	U *1	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 15:19	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 15:19	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				09/20/23 09:36	09/20/23 15:19	1
o-Terphenyl	136	S1+	70 - 130				09/20/23 09:36	09/20/23 15:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.04	0.398	mg/Kg			09/24/23 15:20	1

Client Sample ID: S-5N-S-2'-3'

Lab Sample ID: 880-33439-8

Date Collected: 09/19/23 13:10

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		09/20/23 09:43	09/24/23 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				09/20/23 09:43	09/24/23 19:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130				09/20/23 09:43	09/24/23 19:54	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	U	50.4	15.1	mg/Kg			09/20/23 15:42	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	<15.1	U *1	50.4	15.1	mg/Kg		09/20/23 09:36	09/20/23 15:42	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5N-S-2'-3'

Lab Sample ID: 880-33439-8

Date Collected: 09/19/23 13:10

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.4	15.1	mg/Kg		09/20/23 09:36	09/20/23 15:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		09/20/23 09:36	09/20/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				09/20/23 09:36	09/20/23 15:42	1
o-Terphenyl	135	S1+	70 - 130				09/20/23 09:36	09/20/23 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.05	0.399	mg/Kg			09/24/23 15:26	1

Client Sample ID: S-5E-S-0"-6"

Lab Sample ID: 880-33439-9

Date Collected: 09/19/23 13:25

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/20/23 09:43	09/24/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				09/20/23 09:43	09/24/23 20:14	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				09/20/23 09:43	09/24/23 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.5	14.9	mg/Kg			09/20/23 16:03	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	<14.9	U *1	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 16:03	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 16:03	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		09/20/23 09:36	09/20/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				09/20/23 09:36	09/20/23 16:03	1
o-Terphenyl	131	S1+	70 - 130				09/20/23 09:36	09/20/23 16:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.8		4.99	0.394	mg/Kg			09/24/23 15:32	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5E-S-6"-1'

Lab Sample ID: 880-33439-10

Date Collected: 09/19/23 13:35

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/20/23 09:43	09/24/23 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/20/23 09:43	09/24/23 20:35	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	09/20/23 09:43	09/24/23 20:35	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	U	50.4	15.1	mg/Kg	-		09/20/23 16:25	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	<15.1	U *1	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 16:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 16:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	09/20/23 09:36	09/20/23 16:25	1
o-Terphenyl	128		70 - 130	09/20/23 09:36	09/20/23 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		5.00	0.395	mg/Kg	-		09/24/23 15:38	1

Client Sample ID: S-5E-S-1'-2'

Lab Sample ID: 880-33439-11

Date Collected: 09/19/23 13:40

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	-	09/20/23 09:43	09/24/23 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/20/23 09:43	09/24/23 21:57	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	09/20/23 09:43	09/24/23 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.1	15.0	mg/Kg	-		09/20/23 17:12	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5E-S-1'-2'

Lab Sample ID: 880-33439-11

Date Collected: 09/19/23 13:40

Matrix: Solid

Date Received: 09/20/23 09:15

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	<15.0	U *1	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:12	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	09/20/23 09:36	09/20/23 17:12	1
o-Terphenyl	139	S1+	70 - 130	09/20/23 09:36	09/20/23 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.0		5.02	0.397	mg/Kg			09/24/23 15:43	1

Client Sample ID: S-5E-S-2'-3'

Lab Sample ID: 880-33439-12

Date Collected: 09/19/23 13:50

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *- *1	0.00199	0.000383	mg/Kg		09/25/23 09:37	09/26/23 04:52	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		09/25/23 09:37	09/26/23 04:52	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		09/25/23 09:37	09/26/23 04:52	1
m-Xylene & p-Xylene	0.00119	J	0.00398	0.00100	mg/Kg		09/25/23 09:37	09/26/23 04:52	1
o-Xylene	0.000413	J	0.00199	0.000342	mg/Kg		09/25/23 09:37	09/26/23 04:52	1
Xylenes, Total	0.00160	J	0.00398	0.00100	mg/Kg		09/25/23 09:37	09/26/23 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130	09/25/23 09:37	09/26/23 04:52	1
1,4-Difluorobenzene (Surr)	216	S1+	70 - 130	09/25/23 09:37	09/26/23 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.2	J	50.0	15.0	mg/Kg			09/20/23 17:34	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	19.2	J *1	50.0	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		09/20/23 09:36	09/20/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	181	S1+	70 - 130	09/20/23 09:36	09/20/23 17:34	1
o-Terphenyl	154	S1+	70 - 130	09/20/23 09:36	09/20/23 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.03	0.397	mg/Kg			09/24/23 16:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5W-S-0"-6"

Lab Sample ID: 880-33439-13

Date Collected: 09/19/23 14:00

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *- *1	0.00200	0.000384	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/25/23 09:37	09/26/23 05:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/25/23 09:37	09/26/23 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg	-		09/20/23 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U *1	49.8	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 17:56	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 17:56	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	09/20/23 09:36	09/20/23 17:56	1
o-Terphenyl	154	S1+	70 - 130	09/20/23 09:36	09/20/23 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		4.97	0.393	mg/Kg	-		09/24/23 16:07	1

Client Sample ID: S-5W-S-6"-1'

Lab Sample ID: 880-33439-14

Date Collected: 09/19/23 14:07

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *- *1	0.00201	0.000387	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/25/23 09:37	09/26/23 05:33	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/25/23 09:37	09/26/23 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.6	J	50.2	15.0	mg/Kg	-		09/20/23 18:19	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5W-S-6"-1'

Lab Sample ID: 880-33439-14

Date Collected: 09/19/23 14:07

Matrix: Solid

Date Received: 09/20/23 09:15

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	16.5	J *1	50.2	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 18:19	1
Diesel Range Organics (Over C10-C28)	17.1	J B	50.2	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 18:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	190	S1+	70 - 130	09/20/23 09:36	09/20/23 18:19	1
o-Terphenyl	163	S1+	70 - 130	09/20/23 09:36	09/20/23 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.4		4.95	0.391	mg/Kg	-		09/24/23 16:24	1

Client Sample ID: S-5W-S-1'-2'

Lab Sample ID: 880-33439-15

Date Collected: 09/19/23 14:20

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U *- *1	0.00202	0.000389	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/25/23 09:37	09/26/23 05:54	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/25/23 09:37	09/26/23 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.5	15.2	mg/Kg	-		09/20/23 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U *1	50.5	15.2	mg/Kg	-	09/20/23 09:36	09/20/23 18:41	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.5	15.2	mg/Kg	-	09/20/23 09:36	09/20/23 18:41	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg	-	09/20/23 09:36	09/20/23 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130	09/20/23 09:36	09/20/23 18:41	1
o-Terphenyl	136	S1+	70 - 130	09/20/23 09:36	09/20/23 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.97	0.393	mg/Kg	-		09/24/23 16:30	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5W-S-2'-3'

Lab Sample ID: 880-33439-16

Date Collected: 09/19/23 14:30

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *- *1	0.00199	0.000383	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/25/23 09:37	09/26/23 06:14	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/25/23 09:37	09/26/23 06:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		09/20/23 19:03	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	<15.0	U *1	50.0	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 19:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 19:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	09/20/23 09:36	09/20/23 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130	09/20/23 09:36	09/20/23 19:03	1
o-Terphenyl	135	S1+	70 - 130	09/20/23 09:36	09/20/23 19:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.7		5.02	0.397	mg/Kg	-		09/24/23 16:36	1

Client Sample ID: S-5S-S-0"-6"

Lab Sample ID: 880-33439-17

Date Collected: 09/19/23 14:45

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *- *1	0.00199	0.000383	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	09/25/23 09:37	09/26/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/25/23 09:37	09/26/23 06:34	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/25/23 09:37	09/26/23 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.7	14.9	mg/Kg	-		09/20/23 19:25	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5S-S-0"-6"

Lab Sample ID: 880-33439-17

Date Collected: 09/19/23 14:45

Matrix: Solid

Date Received: 09/20/23 09:15

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	<14.9	U *1	49.7	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:25	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.7	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:25	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130	09/20/23 09:36	09/20/23 19:25	1
o-Terphenyl	153	S1+	70 - 130	09/20/23 09:36	09/20/23 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.3		5.01	0.396	mg/Kg	-		09/24/23 16:42	1

Client Sample ID: S-5S-S-6"-1'

Lab Sample ID: 880-33439-18

Date Collected: 09/19/23 14:55

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *- *1	0.00200	0.000384	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/25/23 09:37	09/26/23 06:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/25/23 09:37	09/26/23 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.6	14.9	mg/Kg	-		09/20/23 19:47	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	<14.9	U *1	49.6	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:47	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.6	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg	-	09/20/23 09:36	09/20/23 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130	09/20/23 09:36	09/20/23 19:47	1
o-Terphenyl	146	S1+	70 - 130	09/20/23 09:36	09/20/23 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		4.98	0.393	mg/Kg	-		09/24/23 16:47	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5S-S-1'-2'

Lab Sample ID: 880-33439-19

Date Collected: 09/19/23 15:05

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *- *1	0.00201	0.000387	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	-	09/25/23 09:37	09/26/23 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/25/23 09:37	09/26/23 07:15	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/25/23 09:37	09/26/23 07:15	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	U	50.4	15.1	mg/Kg	-		09/20/23 20:08	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	<15.1	U *1	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 20:08	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 20:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	-	09/20/23 09:36	09/20/23 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130	09/20/23 09:36	09/20/23 20:08	1
o-Terphenyl	151	S1+	70 - 130	09/20/23 09:36	09/20/23 20:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		4.96	0.392	mg/Kg	-		09/24/23 16:53	1

Client Sample ID: S-5S-S-2'-3'

Lab Sample ID: 880-33439-20

Date Collected: 09/19/23 15:15

Matrix: Solid

Date Received: 09/20/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U *- *1	0.00200	0.000386	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	09/25/23 09:37	09/26/23 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/25/23 09:37	09/26/23 07:36	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/25/23 09:37	09/26/23 07:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.1	15.0	mg/Kg	-		09/20/23 20:31	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5S-S-2'-3'
Date Collected: 09/19/23 15:15
Date Received: 09/20/23 09:15

Lab Sample ID: 880-33439-20
Matrix: Solid

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	<15.0	U *1	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 20:31	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 20:31	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		09/20/23 09:36	09/20/23 20:31	1
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	155	S1+	70 - 130						
o-Terphenyl	135	S1+	70 - 130						
							Prepared	Analyzed	Dil Fac
							09/20/23 09:36	09/20/23 20:31	1
							09/20/23 09:36	09/20/23 20:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	78.6		4.97	0.393	mg/Kg			09/24/23 16:59	1	

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy 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)
880-31594-1	S-4-0-6" (washout)	97	105
880-31594-5	S-5-0-6" (washout)	104	53 S1-
880-31594-9	S-6-0-6" (washout)	82	115
880-31594-13	S-7-0-6" (washout)	87	115
880-31594-17	S-8-0-6" (washout)	85	105
880-33439-1	S-5A-S-0"-6"	136 S1+	111
880-33439-2	S-5A-S-6"-1'	81	92
880-33439-3	S-5A-S-1'-2'	90	64 S1-
880-33439-4	S-5A-S-2'-3'	91	68 S1-
880-33439-5	S-5N-S-0"-6"	94	71
880-33439-6	S-5N-S-6"-1'	92	68 S1-
880-33439-7	S-5N-S-1'-2'	91	62 S1-
880-33439-8	S-5N-S-2'-3'	93	76
880-33439-9	S-5E-S-0"-6"	94	69 S1-
880-33439-10	S-5E-S-6"-1'	93	64 S1-
880-33439-11	S-5E-S-1'-2'	86	65 S1-
880-33439-12	S-5E-S-2'-3'	177 S1+	216 S1+
880-33439-13	S-5W-S-0"-6"	94	107
880-33439-14	S-5W-S-6"-1'	94	111
880-33439-15	S-5W-S-1'-2'	86	108
880-33439-16	S-5W-S-2'-3'	96	117
880-33439-17	S-5S-S-0"-6"	93	111
880-33439-18	S-5S-S-6"-1'	101	106
880-33439-19	S-5S-S-1'-2'	102	106
880-33439-20	S-5S-S-2'-3'	106	116
880-33439-A-1-A MS	880-33439-A-1-A MS	127	93
880-33439-A-1-B MSD	880-33439-A-1-B MSD	125	86
LCS 880-59758/1-A	Lab Control Sample	97	102
LCS 880-59759/1-A	Lab Control Sample	122	108
LCS 880-59819/1-A	Lab Control Sample	83	101
LCS 880-62875/1-A	Lab Control Sample	126	96
LCS 880-63094/1-A	Lab Control Sample	98	97
LCS 880-63199/1-A	Lab Control Sample	96	106
LCSD 880-59758/2-A	Lab Control Sample Dup	103	104
LCSD 880-59759/2-A	Lab Control Sample Dup	129	105
LCSD 880-59819/2-A	Lab Control Sample Dup	83	106
LCSD 880-62875/2-A	Lab Control Sample Dup	120	101
LCSD 880-63094/2-A	Lab Control Sample Dup	106	105
MB 880-59697/39	Method Blank	78	91
MB 880-59705/5-A	Method Blank	72	81
MB 880-59758/5-A	Method Blank	81	87
MB 880-59759/5-A	Method Blank	70	84
MB 880-59819/5-A	Method Blank	74	95
MB 880-62875/5-A	Method Blank	76	88
MB 880-63094/5-A	Method Blank	68 S1-	90
MB 880-63153/5-A	Method Blank	117	136 S1+
MB 880-63199/5-A	Method Blank	129	153 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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Surrogate Summary

Client: ARCADIS US Inc
 Project/Site: Foster Eddy #11
 DFBZ = 1,4-Difluorobenzene (Surr)

Job ID: 880-33439-1
 SDG: Eddy 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
LCSD 880-63199/2-A	Lab Control Sample Dup		
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31594-1	S-4-0-6" (washout)	174 S1+	147 S1+
880-31594-5	S-5-0-6" (washout)	164 S1+	138 S1+
880-31594-9	S-6-0-6" (washout)	178 S1+	151 S1+
880-31594-13	S-7-0-6" (washout)	170 S1+	145 S1+
880-31594-17	S-8-0-6" (washout)	176 S1+	147 S1+
880-33439-1	S-5A-S-0"-6"	153 S1+	137 S1+
880-33439-1 MS	S-5A-S-0"-6"	148 S1+	129
880-33439-1 MSD	S-5A-S-0"-6"	148 S1+	128
880-33439-2	S-5A-S-6"-1'	156 S1+	138 S1+
880-33439-3	S-5A-S-1'-2'	153 S1+	134 S1+
880-33439-4	S-5A-S-2'-3'	161 S1+	141 S1+
880-33439-5	S-5N-S-0"-6"	164 S1+	144 S1+
880-33439-6	S-5N-S-6"-1'	165 S1+	146 S1+
880-33439-7	S-5N-S-1'-2'	154 S1+	136 S1+
880-33439-8	S-5N-S-2'-3'	153 S1+	135 S1+
880-33439-9	S-5E-S-0"-6"	150 S1+	131 S1+
880-33439-10	S-5E-S-6"-1'	147 S1+	128
880-33439-11	S-5E-S-1'-2'	156 S1+	139 S1+
880-33439-12	S-5E-S-2'-3'	181 S1+	154 S1+
880-33439-13	S-5W-S-0"-6"	174 S1+	154 S1+
880-33439-14	S-5W-S-6"-1'	190 S1+	163 S1+
880-33439-15	S-5W-S-1'-2'	158 S1+	136 S1+
880-33439-16	S-5W-S-2'-3'	157 S1+	135 S1+
880-33439-17	S-5S-S-0"-6"	176 S1+	153 S1+
880-33439-18	S-5S-S-6"-1'	166 S1+	146 S1+
880-33439-19	S-5S-S-1'-2'	173 S1+	151 S1+
880-33439-20	S-5S-S-2'-3'	155 S1+	135 S1+
LCS 880-59651/2-A	Lab Control Sample	125	113
LCS 880-62874/2-A	Lab Control Sample	130	151 S1+
LCSD 880-59651/3-A	Lab Control Sample Dup	130	118
LCSD 880-62874/3-A	Lab Control Sample Dup	103	99
MB 880-59651/1-A	Method Blank	150 S1+	138 S1+
MB 880-62874/1-A	Method Blank	162 S1+	145 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59697/39

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			08/09/23 22:34	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			08/09/23 22:34	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			08/09/23 22:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg			08/09/23 22:34	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			08/09/23 22:34	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			08/09/23 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		08/09/23 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130		08/09/23 22:34	1

Lab Sample ID: MB 880-59705/5-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 09:11	08/09/23 12:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 09:11	08/09/23 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	08/09/23 09:11	08/09/23 12:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/09/23 09:11	08/09/23 12:49	1

Lab Sample ID: MB 880-59758/5-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 13:02	08/10/23 01:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:02	08/10/23 01:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	08/09/23 13:02	08/10/23 01:59	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/09/23 13:02	08/10/23 01:59	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59758/1-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1049		mg/Kg		105	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.08797		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09531		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-59758/2-A

Matrix: Solid

Analysis Batch: 59697

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1088		mg/Kg		109	70 - 130	4	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.09425		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130	8	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-59759/5-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/09/23 13:14	08/09/23 23:27	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/09/23 13:14	08/09/23 23:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	08/09/23 13:14	08/09/23 23:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	08/09/23 13:14	08/09/23 23:27	1

Lab Sample ID: LCS 880-59759/1-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1443	*+	mg/Kg		144	70 - 130
Toluene	0.100	0.1244		mg/Kg		124	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59759/1-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1419	*+	mg/Kg		142	70 - 130
m-Xylene & p-Xylene	0.200	0.3079	*+	mg/Kg		154	70 - 130
o-Xylene	0.100	0.1488	*+	mg/Kg		149	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-59759/2-A

Matrix: Solid

Analysis Batch: 59696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1358	*+	mg/Kg		136	70 - 130	6	35
Toluene	0.100	0.1220		mg/Kg		122	70 - 130	2	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2533		mg/Kg		127	70 - 130	19	35
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-59819/5-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/10/23 09:22	08/10/23 13:50	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/10/23 09:22	08/10/23 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	08/10/23 09:22	08/10/23 13:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/10/23 09:22	08/10/23 13:50	1

Lab Sample ID: LCS 880-59819/1-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1180		mg/Kg		118	70 - 130
Toluene	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.08289		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1717		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-59819/1-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08454		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-59819/2-A

Matrix: Solid

Analysis Batch: 59813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59819

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1211		mg/Kg		121	70 - 130	3	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	0	35
Ethylbenzene	0.100	0.08224		mg/Kg		82	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1697		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08350		mg/Kg		84	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-62875/5-A

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/20/23 09:43	09/24/23 16:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/20/23 09:43	09/24/23 16:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/20/23 09:43	09/24/23 16:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/20/23 09:43	09/24/23 16:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/20/23 09:43	09/24/23 16:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/20/23 09:43	09/24/23 16:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	09/20/23 09:43	09/24/23 16:49	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/20/23 09:43	09/24/23 16:49	1

Lab Sample ID: LCS 880-62875/1-A

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1047		mg/Kg		105	70 - 130
Toluene	0.100	0.1150		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1170		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1261		mg/Kg		126	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-62875/1-A

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62875

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-62875/2-A

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09147		mg/Kg		91	70 - 130	14	35
Toluene	0.100	0.09736		mg/Kg		97	70 - 130	17	35
Ethylbenzene	0.100	0.09377		mg/Kg		94	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	24	35
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130	16	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-33439-A-1-A MS

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: 880-33439-A-1-A MS

Prep Type: Total/NA

Prep Batch: 62875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00259	F1	0.0998	0.06797	F1	mg/Kg		66	70 - 130
Toluene	0.209	F1	0.0998	0.08045	F1	mg/Kg		-129	70 - 130
Ethylbenzene	0.00362		0.0998	0.08773		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.0136		0.200	0.1786		mg/Kg		83	70 - 130
o-Xylene	0.00837	F1	0.0998	0.08523		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-33439-A-1-B MSD

Matrix: Solid

Analysis Batch: 63151

Client Sample ID: 880-33439-A-1-B MSD

Prep Type: Total/NA

Prep Batch: 62875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00259	F1	0.100	0.05544	F1	mg/Kg		53	70 - 130	20	35
Toluene	0.209	F1	0.100	0.07120	F1	mg/Kg		-138	70 - 130	12	35
Ethylbenzene	0.00362		0.100	0.08077		mg/Kg		77	70 - 130	8	35
m-Xylene & p-Xylene	0.0136		0.200	0.1598		mg/Kg		73	70 - 130	11	35
o-Xylene	0.00837	F1	0.100	0.07511	F1	mg/Kg		67	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-63094/5-A

Matrix: Solid

Analysis Batch: 63185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/22/23 14:56	09/25/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	09/22/23 14:56	09/25/23 11:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/22/23 14:56	09/25/23 11:44	1

Lab Sample ID: LCS 880-63094/1-A

Matrix: Solid

Analysis Batch: 63185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09705		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-63094/2-A

Matrix: Solid

Analysis Batch: 63185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1106		mg/Kg		111	70 - 130	3	35
Toluene	0.100	0.1118		mg/Kg		112	70 - 130	5	35
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2073		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-63153/5-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/24/23 15:16	09/25/23 11:32	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/24/23 15:16	09/25/23 11:32	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-63153/5-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/24/23 15:16	09/25/23 11:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/24/23 15:16	09/25/23 11:32	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/24/23 15:16	09/25/23 11:32	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/24/23 15:16	09/25/23 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/24/23 15:16	09/25/23 11:32	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130	09/24/23 15:16	09/25/23 11:32	1

Lab Sample ID: MB 880-63199/5-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/25/23 09:37	09/25/23 23:10	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/25/23 09:37	09/25/23 23:10	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/25/23 09:37	09/25/23 23:10	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/25/23 09:37	09/25/23 23:10	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/25/23 09:37	09/25/23 23:10	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/25/23 09:37	09/25/23 23:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/25/23 09:37	09/25/23 23:10	1
1,4-Difluorobenzene (Surr)	153	S1+	70 - 130	09/25/23 09:37	09/25/23 23:10	1

Lab Sample ID: LCS 880-63199/1-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09070		mg/Kg		91	70 - 130
Toluene	0.100	0.08084		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07320		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	0.200	0.1773		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08843		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-63199/2-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09948		mg/Kg					
Toluene	0.100	0.09034		mg/Kg					
Ethylbenzene	0.100	0.08923		mg/Kg					

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-63199/2-A

Matrix: Solid

Analysis Batch: 63184

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2158		mg/Kg					
o-Xylene	0.100	0.1051		mg/Kg					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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

Lab Sample ID: MB 880-59651/1-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.90	J	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1
Diesel Range Organics (Over C10-C28)	15.38	J	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/08/23 15:22	08/13/23 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	08/08/23 15:22	08/13/23 20:13	1
o-Terphenyl	138	S1+	70 - 130	08/08/23 15:22	08/13/23 20:13	1

Lab Sample ID: LCS 880-59651/2-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	988.1		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	845.9		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-59651/3-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1005		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	882.3		mg/Kg		88	70 - 130	4	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-59651/3-A

Matrix: Solid

Analysis Batch: 60035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59651

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

Lab Sample ID: MB 880-62874/1-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62874

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		09/20/23 08:00	09/20/23 08:28	1	
Diesel Range Organics (Over C10-C28)	18.59	J	50.0	15.0	mg/Kg		09/20/23 08:00	09/20/23 08:28	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		09/20/23 08:00	09/20/23 08:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	162	S1+	70 - 130				09/20/23 08:00	09/20/23 08:28	1	
o-Terphenyl	145	S1+	70 - 130				09/20/23 08:00	09/20/23 08:28	1	

Lab Sample ID: LCS 880-62874/2-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62874

			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1186		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1057		mg/Kg		106	70 - 130		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	130		70 - 130								
o-Terphenyl	151	S1+	70 - 130								

Lab Sample ID: LCSD 880-62874/3-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62874

			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.0	*1	mg/Kg		96	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	901.3		mg/Kg		90	70 - 130	16	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	99		70 - 130								

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-33439-1 MS

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: S-5A-S-0"-6"

Prep Type: Total/NA

Prep Batch: 62874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.9	U *1	991	903.0		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	23.4	J B	991	1209		mg/Kg		120	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	148	S1+	70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: 880-33439-1 MSD

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: S-5A-S-0"-6"

Prep Type: Total/NA

Prep Batch: 62874

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	<14.9	U *1	991	897.2		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	23.4	J B	991	1199		mg/Kg		119	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	148	S1+	70 - 130								
o-Terphenyl	128		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59123/1-A

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/04/23 12:56	1

Lab Sample ID: LCS 880-59123/2-A

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-59123/3-A

Matrix: Solid

Analysis Batch: 59305

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	239.1		mg/Kg		96	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-31594-1 MS

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: S-4-0-6" (washout)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	46.0		249	273.9		mg/Kg		91	90 - 110		

Lab Sample ID: 880-31594-1 MSD

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: S-4-0-6" (washout)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46.0		249	274.5		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-31594-11 MS

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: S-6-1'-2' (washout)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	69.5		251	298.1		mg/Kg		91	90 - 110		

Lab Sample ID: 880-31594-11 MSD

Matrix: Solid

Analysis Batch: 59305

Client Sample ID: S-6-1'-2' (washout)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	69.5		251	299.5		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-60841/1-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/23/23 08:48	1

Lab Sample ID: LCS 880-60841/2-A

Matrix: Solid

Analysis Batch: 60882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	250.2		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-60841/3-A

Matrix: Solid

Analysis Batch: 60882

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	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-62897/1-A

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			09/24/23 14:04	1

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-62897/2-A

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-62897/3-A

Matrix: Solid

Analysis Batch: 63204

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	243.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-33439-1 MS

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: S-5A-S-0"-6"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	327	F1	248	511.6	F1	mg/Kg		75	90 - 110

Lab Sample ID: 880-33439-1 MSD

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: S-5A-S-0"-6"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	327	F1	248	509.6	F1	mg/Kg		74	90 - 110	0	20

Lab Sample ID: 880-33439-11 MS

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: S-5E-S-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	83.0		251	333.3		mg/Kg		100	90 - 110

Lab Sample ID: 880-33439-11 MSD

Matrix: Solid

Analysis Batch: 63204

Client Sample ID: S-5E-S-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	83.0		251	329.7		mg/Kg		98	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 59696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8021B	59759
MB 880-59705/5-A	Method Blank	Total/NA	Solid	8021B	59705
MB 880-59759/5-A	Method Blank	Total/NA	Solid	8021B	59759
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	8021B	59759
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59759

Analysis Batch: 59697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8021B	59758
MB 880-59697/39	Method Blank	Total/NA	Solid	8021B	
MB 880-59758/5-A	Method Blank	Total/NA	Solid	8021B	59758
LCS 880-59758/1-A	Lab Control Sample	Total/NA	Solid	8021B	59758
LCSD 880-59758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59758

Prep Batch: 59705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59705/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59758/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59758/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59758/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 59759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59759/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59759/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59759/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 59813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8021B	59819
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8021B	59819
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8021B	59819
MB 880-59819/5-A	Method Blank	Total/NA	Solid	8021B	59819
LCS 880-59819/1-A	Lab Control Sample	Total/NA	Solid	8021B	59819
LCSD 880-59819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59819

Prep Batch: 59819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	5030B	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	5030B	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	5030B	
MB 880-59819/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-59819/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-59819/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 62875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-2	S-5A-S-6"-1'	Total/NA	Solid	5030B	
880-33439-3	S-5A-S-1'-2'	Total/NA	Solid	5030B	
880-33439-4	S-5A-S-2'-3'	Total/NA	Solid	5030B	
880-33439-5	S-5N-S-0"-6"	Total/NA	Solid	5030B	
880-33439-6	S-5N-S-6"-1'	Total/NA	Solid	5030B	
880-33439-7	S-5N-S-1'-2'	Total/NA	Solid	5030B	
880-33439-8	S-5N-S-2'-3'	Total/NA	Solid	5030B	
880-33439-9	S-5E-S-0"-6"	Total/NA	Solid	5030B	
880-33439-10	S-5E-S-6"-1'	Total/NA	Solid	5030B	
880-33439-11	S-5E-S-1'-2'	Total/NA	Solid	5030B	
MB 880-62875/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-62875/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-62875/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-33439-A-1-A MS	880-33439-A-1-A MS	Total/NA	Solid	5030B	
880-33439-A-1-B MSD	880-33439-A-1-B MSD	Total/NA	Solid	5030B	

Prep Batch: 63094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Total/NA	Solid	5030B	
MB 880-63094/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-63094/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-63094/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 63151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-2	S-5A-S-6"-1'	Total/NA	Solid	8021B	62875
880-33439-3	S-5A-S-1'-2'	Total/NA	Solid	8021B	62875
880-33439-4	S-5A-S-2'-3'	Total/NA	Solid	8021B	62875
880-33439-5	S-5N-S-0"-6"	Total/NA	Solid	8021B	62875
880-33439-6	S-5N-S-6"-1'	Total/NA	Solid	8021B	62875
880-33439-7	S-5N-S-1'-2'	Total/NA	Solid	8021B	62875
880-33439-8	S-5N-S-2'-3'	Total/NA	Solid	8021B	62875
880-33439-9	S-5E-S-0"-6"	Total/NA	Solid	8021B	62875
880-33439-10	S-5E-S-6"-1'	Total/NA	Solid	8021B	62875
880-33439-11	S-5E-S-1'-2'	Total/NA	Solid	8021B	62875
MB 880-62875/5-A	Method Blank	Total/NA	Solid	8021B	62875
LCS 880-62875/1-A	Lab Control Sample	Total/NA	Solid	8021B	62875
LCSD 880-62875/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62875
880-33439-A-1-A MS	880-33439-A-1-A MS	Total/NA	Solid	8021B	62875
880-33439-A-1-B MSD	880-33439-A-1-B MSD	Total/NA	Solid	8021B	62875

Prep Batch: 63153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63153/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 63184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-12	S-5E-S-2'-3'	Total/NA	Solid	8021B	63199
880-33439-13	S-5W-S-0"-6"	Total/NA	Solid	8021B	63199
880-33439-14	S-5W-S-6"-1'	Total/NA	Solid	8021B	63199
880-33439-15	S-5W-S-1'-2'	Total/NA	Solid	8021B	63199

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 63184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-16	S-5W-S-2'-3'	Total/NA	Solid	8021B	63199
880-33439-17	S-5S-S-0"-6"	Total/NA	Solid	8021B	63199
880-33439-18	S-5S-S-6"-1'	Total/NA	Solid	8021B	63199
880-33439-19	S-5S-S-1'-2'	Total/NA	Solid	8021B	63199
880-33439-20	S-5S-S-2'-3'	Total/NA	Solid	8021B	63199
MB 880-63153/5-A	Method Blank	Total/NA	Solid	8021B	63153
MB 880-63199/5-A	Method Blank	Total/NA	Solid	8021B	63199
LCS 880-63199/1-A	Lab Control Sample	Total/NA	Solid	8021B	63199
LCSD 880-63199/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63199

Analysis Batch: 63185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Total/NA	Solid	8021B	63094
MB 880-63094/5-A	Method Blank	Total/NA	Solid	8021B	63094
LCS 880-63094/1-A	Lab Control Sample	Total/NA	Solid	8021B	63094
LCSD 880-63094/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63094

Prep Batch: 63199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-12	S-5E-S-2'-3'	Total/NA	Solid	5030B	
880-33439-13	S-5W-S-0"-6"	Total/NA	Solid	5030B	
880-33439-14	S-5W-S-6"-1'	Total/NA	Solid	5030B	
880-33439-15	S-5W-S-1'-2'	Total/NA	Solid	5030B	
880-33439-16	S-5W-S-2'-3'	Total/NA	Solid	5030B	
880-33439-17	S-5S-S-0"-6"	Total/NA	Solid	5030B	
880-33439-18	S-5S-S-6"-1'	Total/NA	Solid	5030B	
880-33439-19	S-5S-S-1'-2'	Total/NA	Solid	5030B	
880-33439-20	S-5S-S-2'-3'	Total/NA	Solid	5030B	
MB 880-63199/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-63199/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-63199/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 59651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015NM Prep	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015NM Prep	
MB 880-59651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015B NM	59651
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015B NM	59651

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015B NM	59651
MB 880-59651/1-A	Method Blank	Total/NA	Solid	8015B NM	59651
LCS 880-59651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59651
LCSD 880-59651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59651

Analysis Batch: 60212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-5	S-5-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-9	S-6-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-13	S-7-0-6" (washout)	Total/NA	Solid	8015 NM	
880-31594-17	S-8-0-6" (washout)	Total/NA	Solid	8015 NM	

Analysis Batch: 62863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-2	S-5A-S-6"-1'	Total/NA	Solid	8015B NM	62874
880-33439-3	S-5A-S-1'-2'	Total/NA	Solid	8015B NM	62874
880-33439-4	S-5A-S-2'-3'	Total/NA	Solid	8015B NM	62874
880-33439-5	S-5N-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-6	S-5N-S-6"-1'	Total/NA	Solid	8015B NM	62874
880-33439-7	S-5N-S-1'-2'	Total/NA	Solid	8015B NM	62874
880-33439-8	S-5N-S-2'-3'	Total/NA	Solid	8015B NM	62874
880-33439-9	S-5E-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-10	S-5E-S-6"-1'	Total/NA	Solid	8015B NM	62874
880-33439-11	S-5E-S-1'-2'	Total/NA	Solid	8015B NM	62874
880-33439-12	S-5E-S-2'-3'	Total/NA	Solid	8015B NM	62874
880-33439-13	S-5W-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-14	S-5W-S-6"-1'	Total/NA	Solid	8015B NM	62874
880-33439-15	S-5W-S-1'-2'	Total/NA	Solid	8015B NM	62874
880-33439-16	S-5W-S-2'-3'	Total/NA	Solid	8015B NM	62874
880-33439-17	S-5S-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-18	S-5S-S-6"-1'	Total/NA	Solid	8015B NM	62874
880-33439-19	S-5S-S-1'-2'	Total/NA	Solid	8015B NM	62874
880-33439-20	S-5S-S-2'-3'	Total/NA	Solid	8015B NM	62874
MB 880-62874/1-A	Method Blank	Total/NA	Solid	8015B NM	62874
LCS 880-62874/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62874
LCSD 880-62874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62874
880-33439-1 MS	S-5A-S-0"-6"	Total/NA	Solid	8015B NM	62874
880-33439-1 MSD	S-5A-S-0"-6"	Total/NA	Solid	8015B NM	62874

Prep Batch: 62874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-2	S-5A-S-6"-1'	Total/NA	Solid	8015NM Prep	
880-33439-3	S-5A-S-1'-2'	Total/NA	Solid	8015NM Prep	
880-33439-4	S-5A-S-2'-3'	Total/NA	Solid	8015NM Prep	
880-33439-5	S-5N-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-6	S-5N-S-6"-1'	Total/NA	Solid	8015NM Prep	
880-33439-7	S-5N-S-1'-2'	Total/NA	Solid	8015NM Prep	
880-33439-8	S-5N-S-2'-3'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 62874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-9	S-5E-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-10	S-5E-S-6"-1'	Total/NA	Solid	8015NM Prep	
880-33439-11	S-5E-S-1'-2'	Total/NA	Solid	8015NM Prep	
880-33439-12	S-5E-S-2'-3'	Total/NA	Solid	8015NM Prep	
880-33439-13	S-5W-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-14	S-5W-S-6"-1'	Total/NA	Solid	8015NM Prep	
880-33439-15	S-5W-S-1'-2'	Total/NA	Solid	8015NM Prep	
880-33439-16	S-5W-S-2'-3'	Total/NA	Solid	8015NM Prep	
880-33439-17	S-5S-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-18	S-5S-S-6"-1'	Total/NA	Solid	8015NM Prep	
880-33439-19	S-5S-S-1'-2'	Total/NA	Solid	8015NM Prep	
880-33439-20	S-5S-S-2'-3'	Total/NA	Solid	8015NM Prep	
MB 880-62874/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62874/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33439-1 MS	S-5A-S-0"-6"	Total/NA	Solid	8015NM Prep	
880-33439-1 MSD	S-5A-S-0"-6"	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Total/NA	Solid	8015 NM	
880-33439-2	S-5A-S-6"-1'	Total/NA	Solid	8015 NM	
880-33439-3	S-5A-S-1'-2'	Total/NA	Solid	8015 NM	
880-33439-4	S-5A-S-2'-3'	Total/NA	Solid	8015 NM	
880-33439-5	S-5N-S-0"-6"	Total/NA	Solid	8015 NM	
880-33439-6	S-5N-S-6"-1'	Total/NA	Solid	8015 NM	
880-33439-7	S-5N-S-1'-2'	Total/NA	Solid	8015 NM	
880-33439-8	S-5N-S-2'-3'	Total/NA	Solid	8015 NM	
880-33439-9	S-5E-S-0"-6"	Total/NA	Solid	8015 NM	
880-33439-10	S-5E-S-6"-1'	Total/NA	Solid	8015 NM	
880-33439-11	S-5E-S-1'-2'	Total/NA	Solid	8015 NM	
880-33439-12	S-5E-S-2'-3'	Total/NA	Solid	8015 NM	
880-33439-13	S-5W-S-0"-6"	Total/NA	Solid	8015 NM	
880-33439-14	S-5W-S-6"-1'	Total/NA	Solid	8015 NM	
880-33439-15	S-5W-S-1'-2'	Total/NA	Solid	8015 NM	
880-33439-16	S-5W-S-2'-3'	Total/NA	Solid	8015 NM	
880-33439-17	S-5S-S-0"-6"	Total/NA	Solid	8015 NM	
880-33439-18	S-5S-S-6"-1'	Total/NA	Solid	8015 NM	
880-33439-19	S-5S-S-1'-2'	Total/NA	Solid	8015 NM	
880-33439-20	S-5S-S-2'-3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-2	S-4-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-3	S-4-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-4	S-4-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-5	S-5-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-6	S-5-6"-1' (washout)	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 59123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-7	S-5-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-9	S-6-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-10	S-6-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-11	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-12	S-6-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-13	S-7-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-14	S-7-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-15	S-7-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-16	S-7-2'-3' (washout)	Soluble	Solid	DI Leach	
880-31594-17	S-8-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-18	S-8-6"-1' (washout)	Soluble	Solid	DI Leach	
880-31594-19	S-8-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-20	S-8-2'-3' (washout)	Soluble	Solid	DI Leach	
MB 880-59123/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59123/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59123/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31594-1 MS	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-1 MSD	S-4-0-6" (washout)	Soluble	Solid	DI Leach	
880-31594-11 MS	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	
880-31594-11 MSD	S-6-1'-2' (washout)	Soluble	Solid	DI Leach	

Analysis Batch: 59305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-1	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-2	S-4-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-3	S-4-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-4	S-4-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-5	S-5-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-6	S-5-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-7	S-5-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-9	S-6-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-10	S-6-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-11	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-12	S-6-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-13	S-7-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-14	S-7-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-15	S-7-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-16	S-7-2'-3' (washout)	Soluble	Solid	300.0	59123
880-31594-17	S-8-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-18	S-8-6"-1' (washout)	Soluble	Solid	300.0	59123
880-31594-19	S-8-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-20	S-8-2'-3' (washout)	Soluble	Solid	300.0	59123
MB 880-59123/1-A	Method Blank	Soluble	Solid	300.0	59123
LCS 880-59123/2-A	Lab Control Sample	Soluble	Solid	300.0	59123
LCSD 880-59123/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59123
880-31594-1 MS	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-1 MSD	S-4-0-6" (washout)	Soluble	Solid	300.0	59123
880-31594-11 MS	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123
880-31594-11 MSD	S-6-1'-2' (washout)	Soluble	Solid	300.0	59123

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 60841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-8	S-5-2'-3' (washout)	Soluble	Solid	DI Leach	
MB 880-60841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 60882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31594-8	S-5-2'-3' (washout)	Soluble	Solid	300.0	60841
MB 880-60841/1-A	Method Blank	Soluble	Solid	300.0	60841
LCS 880-60841/2-A	Lab Control Sample	Soluble	Solid	300.0	60841
LCSD 880-60841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60841

Leach Batch: 62897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-2	S-5A-S-6"-1'	Soluble	Solid	DI Leach	
880-33439-3	S-5A-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-4	S-5A-S-2'-3'	Soluble	Solid	DI Leach	
880-33439-5	S-5N-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-6	S-5N-S-6"-1'	Soluble	Solid	DI Leach	
880-33439-7	S-5N-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-8	S-5N-S-2'-3'	Soluble	Solid	DI Leach	
880-33439-9	S-5E-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-10	S-5E-S-6"-1'	Soluble	Solid	DI Leach	
880-33439-11	S-5E-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-12	S-5E-S-2'-3'	Soluble	Solid	DI Leach	
880-33439-13	S-5W-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-14	S-5W-S-6"-1'	Soluble	Solid	DI Leach	
880-33439-15	S-5W-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-16	S-5W-S-2'-3'	Soluble	Solid	DI Leach	
880-33439-17	S-5S-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-18	S-5S-S-6"-1'	Soluble	Solid	DI Leach	
880-33439-19	S-5S-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-20	S-5S-S-2'-3'	Soluble	Solid	DI Leach	
MB 880-62897/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62897/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62897/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33439-1 MS	S-5A-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-1 MSD	S-5A-S-0"-6"	Soluble	Solid	DI Leach	
880-33439-11 MS	S-5E-S-1'-2'	Soluble	Solid	DI Leach	
880-33439-11 MSD	S-5E-S-1'-2'	Soluble	Solid	DI Leach	

Analysis Batch: 63204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-1	S-5A-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-2	S-5A-S-6"-1'	Soluble	Solid	300.0	62897
880-33439-3	S-5A-S-1'-2'	Soluble	Solid	300.0	62897
880-33439-4	S-5A-S-2'-3'	Soluble	Solid	300.0	62897
880-33439-5	S-5N-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-6	S-5N-S-6"-1'	Soluble	Solid	300.0	62897
880-33439-7	S-5N-S-1'-2'	Soluble	Solid	300.0	62897

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 63204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33439-8	S-5N-S-2'-3'	Soluble	Solid	300.0	62897
880-33439-9	S-5E-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-10	S-5E-S-6"-1'	Soluble	Solid	300.0	62897
880-33439-11	S-5E-S-1'-2'	Soluble	Solid	300.0	62897
880-33439-12	S-5E-S-2'-3'	Soluble	Solid	300.0	62897
880-33439-13	S-5W-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-14	S-5W-S-6"-1'	Soluble	Solid	300.0	62897
880-33439-15	S-5W-S-1'-2'	Soluble	Solid	300.0	62897
880-33439-16	S-5W-S-2'-3'	Soluble	Solid	300.0	62897
880-33439-17	S-5S-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-18	S-5S-S-6"-1'	Soluble	Solid	300.0	62897
880-33439-19	S-5S-S-1'-2'	Soluble	Solid	300.0	62897
880-33439-20	S-5S-S-2'-3'	Soluble	Solid	300.0	62897
MB 880-62897/1-A	Method Blank	Soluble	Solid	300.0	62897
LCS 880-62897/2-A	Lab Control Sample	Soluble	Solid	300.0	62897
LCSD 880-62897/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62897
880-33439-1 MS	S-5A-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-1 MSD	S-5A-S-0"-6"	Soluble	Solid	300.0	62897
880-33439-11 MS	S-5E-S-1'-2'	Soluble	Solid	300.0	62897
880-33439-11 MSD	S-5E-S-1'-2'	Soluble	Solid	300.0	62897

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-4-0-6" (washout)

Lab Sample ID: 880-31594-1

Date Collected: 08/01/23 10:00

Matrix: Solid

Date Received: 08/02/23 13:21

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	59758	08/09/23 13:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59697	08/10/23 07:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:11	CH	EET MID

Client Sample ID: S-4-6"-1' (washout)

Lab Sample ID: 880-31594-2

Date Collected: 08/01/23 10:10

Matrix: Solid

Date Received: 08/02/23 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:26	CH	EET MID

Client Sample ID: S-4-1'-2' (washout)

Lab Sample ID: 880-31594-3

Date Collected: 08/01/23 10:17

Matrix: Solid

Date Received: 08/02/23 13:21

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:31	CH	EET MID

Client Sample ID: S-4-2'-3' (washout)

Lab Sample ID: 880-31594-4

Date Collected: 08/01/23 10:25

Matrix: Solid

Date Received: 08/02/23 13:21

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:36	CH	EET MID

Client Sample ID: S-5-0-6" (washout)

Lab Sample ID: 880-31594-5

Date Collected: 08/01/23 10:40

Matrix: Solid

Date Received: 08/02/23 13:21

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	59759	08/09/23 13:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59696	08/10/23 07:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 00:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:41	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5-6"-1' (washout)

Date Collected: 08/01/23 10:50

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-6

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			5.01 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 13:56	CH	EET MID

Client Sample ID: S-5-1'-2' (washout)

Date Collected: 08/01/23 10:55

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-7

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 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:01	CH	EET MID

Client Sample ID: S-5-2'-3' (washout)

Date Collected: 08/01/23 11:02

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-8

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			4.99 g	50 mL	60841	08/23/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			60882	08/23/23 14:55	CH	EET MID

Client Sample ID: S-6-0-6" (washout)

Date Collected: 08/01/23 11:25

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-9

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			5.03 g	5 mL	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:11	CH	EET MID

Client Sample ID: S-6-6"-1' (washout)

Date Collected: 08/01/23 11:31

Date Received: 08/02/23 13:21

Lab Sample ID: 880-31594-10

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			4.99 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:16	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-6-1'-2' (washout)**Lab Sample ID: 880-31594-11****Date Collected: 08/01/23 11:40****Matrix: Solid****Date Received: 08/02/23 13:21**

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:21	CH	EET MID

Client Sample ID: S-6-2'-3' (washout)**Lab Sample ID: 880-31594-12****Date Collected: 08/01/23 11:45****Matrix: Solid****Date Received: 08/02/23 13:21**

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:36	CH	EET MID

Client Sample ID: S-7-0-6" (washout)**Lab Sample ID: 880-31594-13****Date Collected: 08/01/23 12:20****Matrix: Solid****Date Received: 08/02/23 13:21**

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	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:41	CH	EET MID

Client Sample ID: S-7-6"-1' (washout)**Lab Sample ID: 880-31594-14****Date Collected: 08/01/23 12:30****Matrix: Solid****Date Received: 08/02/23 13:21**

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	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 14:56	CH	EET MID

Client Sample ID: S-7-1'-2' (washout)**Lab Sample ID: 880-31594-15****Date Collected: 08/01/23 12:37****Matrix: Solid****Date Received: 08/02/23 13:21**

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 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:01	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-7-2'-3' (washout)**Lab Sample ID: 880-31594-16****Date Collected: 08/01/23 12:46****Matrix: Solid****Date Received: 08/02/23 13:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:06	CH	EET MID

Client Sample ID: S-8-0-6" (washout)**Lab Sample ID: 880-31594-17****Date Collected: 08/01/23 13:15****Matrix: Solid****Date Received: 08/02/23 13:21**

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	59819	08/10/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59813	08/10/23 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			60212	08/14/23 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	59651	08/08/23 15:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60035	08/14/23 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:10	CH	EET MID

Client Sample ID: S-8-6"-1' (washout)**Lab Sample ID: 880-31594-18****Date Collected: 08/01/23 13:25****Matrix: Solid****Date Received: 08/02/23 13:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:15	CH	EET MID

Client Sample ID: S-8-1'-2' (washout)**Lab Sample ID: 880-31594-19****Date Collected: 08/01/23 13:33****Matrix: Solid****Date Received: 08/02/23 13:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:20	CH	EET MID

Client Sample ID: S-8-2'-3' (washout)**Lab Sample ID: 880-31594-20****Date Collected: 08/01/23 13:41****Matrix: Solid****Date Received: 08/02/23 13:21**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	59123	08/02/23 14:35	KS	EET MID
Soluble	Analysis	300.0		1			59305	08/04/23 15:25	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5A-S-0"-6"**Lab Sample ID: 880-33439-1****Date Collected: 09/19/23 12:00****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63094	09/22/23 14:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/25/23 21:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 12:25	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 14:22	CH	EET MID

Client Sample ID: S-5A-S-6"-1'**Lab Sample ID: 880-33439-2****Date Collected: 09/19/23 12:10****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 17:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 14:39	CH	EET MID

Client Sample ID: S-5A-S-1'-2'**Lab Sample ID: 880-33439-3****Date Collected: 09/19/23 12:20****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 18:12	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 13:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 13:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 14:45	CH	EET MID

Client Sample ID: S-5A-S-2'-3'**Lab Sample ID: 880-33439-4****Date Collected: 09/19/23 12:25****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 18:32	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 14:13	SM	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5A-S-2'-3'**Lab Sample ID: 880-33439-4****Date Collected: 09/19/23 12:25****Matrix: Solid****Date Received: 09/20/23 09:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 14:51	CH	EET MID

Client Sample ID: S-5N-S-0"-6"**Lab Sample ID: 880-33439-5****Date Collected: 09/19/23 12:40****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 18:53	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 14:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 14:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 14:57	CH	EET MID

Client Sample ID: S-5N-S-6"-1'**Lab Sample ID: 880-33439-6****Date Collected: 09/19/23 12:50****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 19:13	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:14	CH	EET MID

Client Sample ID: S-5N-S-1'-2'**Lab Sample ID: 880-33439-7****Date Collected: 09/19/23 13:00****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 19:33	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 15:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 15:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:20	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5N-S-2'-3'**Lab Sample ID: 880-33439-8****Date Collected: 09/19/23 13:10****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 19:54	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 15:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:26	CH	EET MID

Client Sample ID: S-5E-S-0"-6"**Lab Sample ID: 880-33439-9****Date Collected: 09/19/23 13:25****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 20:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 16:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:32	CH	EET MID

Client Sample ID: S-5E-S-6"-1'**Lab Sample ID: 880-33439-10****Date Collected: 09/19/23 13:35****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 20:35	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 16:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:38	CH	EET MID

Client Sample ID: S-5E-S-1'-2'**Lab Sample ID: 880-33439-11****Date Collected: 09/19/23 13:40****Matrix: Solid****Date Received: 09/20/23 09:15**

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	62875	09/20/23 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63151	09/24/23 21:57	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 17:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5E-S-1'-2'

Lab Sample ID: 880-33439-11

Date Collected: 09/19/23 13:40

Matrix: Solid

Date Received: 09/20/23 09:15

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	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 15:43	CH	EET MID

Client Sample ID: S-5E-S-2'-3'

Lab Sample ID: 880-33439-12

Date Collected: 09/19/23 13:50

Matrix: Solid

Date Received: 09/20/23 09:15

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 04:52	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:01	CH	EET MID

Client Sample ID: S-5W-S-0"-6"

Lab Sample ID: 880-33439-13

Date Collected: 09/19/23 14:00

Matrix: Solid

Date Received: 09/20/23 09:15

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 05:13	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:07	CH	EET MID

Client Sample ID: S-5W-S-6"-1'

Lab Sample ID: 880-33439-14

Date Collected: 09/19/23 14:07

Matrix: Solid

Date Received: 09/20/23 09:15

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 05:33	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 18:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:24	CH	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5W-S-1'-2'**Lab Sample ID: 880-33439-15****Date Collected: 09/19/23 14:20****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 05:54	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:30	CH	EET MID

Client Sample ID: S-5W-S-2'-3'**Lab Sample ID: 880-33439-16****Date Collected: 09/19/23 14:30****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 06:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 19:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 19:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:36	CH	EET MID

Client Sample ID: S-5S-S-0"-6"**Lab Sample ID: 880-33439-17****Date Collected: 09/19/23 14:45****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 06:34	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 19:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:42	CH	EET MID

Client Sample ID: S-5S-S-6"-1'**Lab Sample ID: 880-33439-18****Date Collected: 09/19/23 14:55****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 06:55	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 19:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 19:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Client Sample ID: S-5S-S-6"-1'**Lab Sample ID: 880-33439-18****Date Collected: 09/19/23 14:55****Matrix: Solid****Date Received: 09/20/23 09:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:47	CH	EET MID

Client Sample ID: S-5S-S-1'-2'**Lab Sample ID: 880-33439-19****Date Collected: 09/19/23 15:05****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 07:15	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 20:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 20:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:53	CH	EET MID

Client Sample ID: S-5S-S-2'-3'**Lab Sample ID: 880-33439-20****Date Collected: 09/19/23 15:15****Matrix: Solid****Date Received: 09/20/23 09:15**

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	63199	09/25/23 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63184	09/26/23 07:36	MNR	EET MID
Total/NA	Analysis	8015 NM		1			62994	09/20/23 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62874	09/20/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 20:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62897	09/20/23 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63204	09/24/23 16:59	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy 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

Method Summary

Client: ARCADIS US Inc
Project/Site: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

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: Foster Eddy #11

Job ID: 880-33439-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31594-1	S-4-0-6" (washout)	Solid	08/01/23 10:00	08/02/23 13:21
880-31594-2	S-4-6"-1' (washout)	Solid	08/01/23 10:10	08/02/23 13:21
880-31594-3	S-4-1'-2' (washout)	Solid	08/01/23 10:17	08/02/23 13:21
880-31594-4	S-4-2'-3' (washout)	Solid	08/01/23 10:25	08/02/23 13:21
880-31594-5	S-5-0-6" (washout)	Solid	08/01/23 10:40	08/02/23 13:21
880-31594-6	S-5-6"-1' (washout)	Solid	08/01/23 10:50	08/02/23 13:21
880-31594-7	S-5-1'-2' (washout)	Solid	08/01/23 10:55	08/02/23 13:21
880-31594-8	S-5-2'-3' (washout)	Solid	08/01/23 11:02	08/02/23 13:21
880-31594-9	S-6-0-6" (washout)	Solid	08/01/23 11:25	08/02/23 13:21
880-31594-10	S-6-6"-1' (washout)	Solid	08/01/23 11:31	08/02/23 13:21
880-31594-11	S-6-1'-2' (washout)	Solid	08/01/23 11:40	08/02/23 13:21
880-31594-12	S-6-2'-3' (washout)	Solid	08/01/23 11:45	08/02/23 13:21
880-31594-13	S-7-0-6" (washout)	Solid	08/01/23 12:20	08/02/23 13:21
880-31594-14	S-7-6"-1' (washout)	Solid	08/01/23 12:30	08/02/23 13:21
880-31594-15	S-7-1'-2' (washout)	Solid	08/01/23 12:37	08/02/23 13:21
880-31594-16	S-7-2'-3' (washout)	Solid	08/01/23 12:46	08/02/23 13:21
880-31594-17	S-8-0-6" (washout)	Solid	08/01/23 13:15	08/02/23 13:21
880-31594-18	S-8-6"-1' (washout)	Solid	08/01/23 13:25	08/02/23 13:21
880-31594-19	S-8-1'-2' (washout)	Solid	08/01/23 13:33	08/02/23 13:21
880-31594-20	S-8-2'-3' (washout)	Solid	08/01/23 13:41	08/02/23 13:21
880-33439-1	S-5A-S-0"-6"	Solid	09/19/23 12:00	09/20/23 09:15
880-33439-2	S-5A-S-6"-1'	Solid	09/19/23 12:10	09/20/23 09:15
880-33439-3	S-5A-S-1'-2'	Solid	09/19/23 12:20	09/20/23 09:15
880-33439-4	S-5A-S-2'-3'	Solid	09/19/23 12:25	09/20/23 09:15
880-33439-5	S-5N-S-0"-6"	Solid	09/19/23 12:40	09/20/23 09:15
880-33439-6	S-5N-S-6"-1'	Solid	09/19/23 12:50	09/20/23 09:15
880-33439-7	S-5N-S-1'-2'	Solid	09/19/23 13:00	09/20/23 09:15
880-33439-8	S-5N-S-2'-3'	Solid	09/19/23 13:10	09/20/23 09:15
880-33439-9	S-5E-S-0"-6"	Solid	09/19/23 13:25	09/20/23 09:15
880-33439-10	S-5E-S-6"-1'	Solid	09/19/23 13:35	09/20/23 09:15
880-33439-11	S-5E-S-1'-2'	Solid	09/19/23 13:40	09/20/23 09:15
880-33439-12	S-5E-S-2'-3'	Solid	09/19/23 13:50	09/20/23 09:15
880-33439-13	S-5W-S-0"-6"	Solid	09/19/23 14:00	09/20/23 09:15
880-33439-14	S-5W-S-6"-1'	Solid	09/19/23 14:07	09/20/23 09:15
880-33439-15	S-5W-S-1'-2'	Solid	09/19/23 14:20	09/20/23 09:15
880-33439-16	S-5W-S-2'-3'	Solid	09/19/23 14:30	09/20/23 09:15
880-33439-17	S-5S-S-0"-6"	Solid	09/19/23 14:45	09/20/23 09:15
880-33439-18	S-5S-S-6"-1'	Solid	09/19/23 14:55	09/20/23 09:15
880-33439-19	S-5S-S-1'-2'	Solid	09/19/23 15:05	09/20/23 09:15
880-33439-20	S-5S-S-2'-3'	Solid	09/19/23 15:15	09/20/23 09:15

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Eurofins Midland

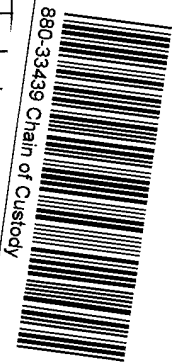
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

41354

Client Information		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: Justin Nixon		Phone: 432-296-5154	Builes, John	State of Origin: NM	880-6431-895 4
Company: ARCADIS US Inc		PW/SID	Page: 1 of 2		
Address: 1004 North Big Spring Suite 300		Due Date Requested	Analysis Requested		
City: Midland		TAT Requested (days): 5			
State Zip: TX, 79701		Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547 (Tel)		PO #:			
Email: Justin.Nixon@arcadis.com		WO #:			
Project Name: Foster Eddy #11		Project #:			
Site: Edgemoor, NM		SSOW#:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=organic, B=trace, A=alt)
S-5A-S-0-6	9-14-23	1200	6		Solid
S-5A-S-0-6-1		1210			Solid
S-5A-S-1-2		1220			Solid
S-5A-S-2-3		1225			Solid
S-5N-S-0-6		1240			Solid
S-5N-S-0-6-1		1250			Solid
S-5N-S-1-2		1320			Solid
S-5N-S-2-3		1310			Solid
S-5E-S-0-6		1325			Solid
S-5E-S-0-6-1		1335			Solid
S-5E-S-1-2		1340			Solid
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested I II III IV Other (specify)					
Empty Kit Relinquished by					
Relinquished by		Date/Time	Date	Time	Method of Shipment
Relinquished by		Date/Time	Date	Time	Method of Shipment
Relinquished by		Date/Time	Date	Time	Method of Shipment
Special Instructions/Note:					
8015MOD_NM - Full TPH					
8021B - BTEX					
300_ORGFM_28D - Chloride					
Preservation Codes:					
A - HCL M - Hexane					
B - NaOH N - None					
C - Zn Acetate O - AsNaO2					
D - Nitric Acid P - Na2O4S					
E - NaHSO4 Q - Na2SO3					
F - MeOH R - Na2S2O3					
G - Amelior S - H2SO4					
H - Ascorbic Acid T - TSP Dodecalhydrate					
I - Ice U - Acetone					
J - DI Water V - MCAA					
K - EDTA W - pH 4-5					
L - EDA Y - Trizma					
Z - other (specify)					



880-33439 Chain of Custody

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

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

Client Information		Sampler	Lab Pkt.	Carrier Tracking Note(s)	COC No.
Client Contact: Justin Nixon		Phone: 432-266-9547	Bulles, John	Site of Origin: N/A	880-6491-895 4
Company: ARCADIS US Inc		PWSID:	Page: 2 of 2		

Address: 1004 North Big Spring Suite 300		Due Date Requested	Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Decahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)
City: Midland	State, Zip: TX, 79701	TAT Requested (days): 5			
Phone: 432-296-9547 (Tel)	Compliance Project: Δ Yes Δ No	PO #: 30190445-02			
Email: Justin.Nixon@arcadis.com	Project #: 88001848	SSOW#:			
Foster Eddy #11	SSOW#:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other, BI=Trinova, A=Air)	Special Instructions/Note:
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S-SE-S-2-3	9/9/23	1350	G	Solid	XXXX
S-SW-S-0-6		1400		Solid	
S-SW-S-6-1		1407		Solid	
S-SW-S-1-2		1420		Solid	
S-SW-S-2-2		1430		Solid	
S-SW-S-0-8		1445		Solid	
S-SW-S-6-1		1455		Solid	
S-SW-S-1-2		1505			
S-SW-S-2-3		1515			

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months

Deliverable Requested I, II, III, IV, Other (specify)	Special Instructions/QC Requirements						
Empty Kit Relinquished by	Date	Time	Method of Shipment:				
Relinquished by	Date/Time: 9/20/23	910	Company: hcdia	Received by	Date/Time: 9/20/23	915	Company:
Relinquished by	Date/Time:		Company:	Received by	Date/Time:		Company:

Loc: 880
33439

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-33439-1
SDG Number: Eddy County, NM

Login Number: 33439

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Appendix C

Historical Washout Area



Foster Eddy #11 Wah Out Area-No Vegetation

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

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

QUESTIONS

Action 397851

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMAP1822870620
Incident Name	NMAP1822870620 FOSTER EDDY #011 @ 30-015-26231
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-26231] FOSTER EDDY #011

Location of Release Source*Please answer all the questions in this group.*

Site Name	FOSTER EDDY #011
Date Release Discovered	08/11/2018
Surface Owner	Federal

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	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 22 BBL Recovered: 1 BBL Lost: 21 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 02/29/2024
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QUESTIONS, Page 3

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
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	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	846
GRO+DRO (EPA SW-846 Method 8015M)	8021
BTEX (EPA SW-846 Method 8021B or 8260B)	8021
Benzene (EPA SW-846 Method 8021B or 8260B)	8021

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	04/13/2023
On what date will (or did) the final sampling or liner inspection occur	05/02/2023
On what date will (or was) the remediation complete(d)	05/02/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	800
What is the estimated volume (in cubic yards) that will be remediated	40

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Foster Eddy Battery Central Tank Battery [APP2203433235]
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: 02/29/2024
<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>	

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QUESTIONS, Page 5

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	318902
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/01/2023
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	0

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	800
What was the total volume (cubic yards) remediated	40
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	800
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	"Analytical results associated with recent remediation activities conducted in 2023 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 less than 50 feet bgs have been delineated both horizontally and vertically, and excavated from the impacted area based on initial assesment and remediation. "

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 02/29/2024
--	--

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QUESTIONS, Page 7

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	800
What was the total volume of replacement material (in cubic yards) for this site	40
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/31/2024
Summarize any additional reclamation activities not included by answers (above)	The site was backfilled with topsoil consistent with the current soil type in the area. Reseeding is N/A due to a natural histoical wash out preventing vegetative growth parrallel to the least road.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requiremets and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 10/31/2024

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QUESTIONS, Page 8

Action 397851

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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

CONDITIONS

Action 397851

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 397851
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Application with Variance is approved.	11/26/2024