



COG (ConocoPhillips)

2023 Work Plan

SRO SWD #104

Incident # NAB1627849311

Eddy County, New Mexico

October 2023

2023 Work Plan

2023 Work Plan

SRO SWD #104
Incident # NAB1627849311
Eddy County, New Mexico
October 2023

Prepared By:

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:

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

Our Ref:

30190846



Justin Nixon
Task Manager



Scott Foord, PG
Certified Project Manager

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

www.arcadis.com

2023 Work Plan

Contents

1	Introduction.....	1
2	Project Summary	1
2.1	Incident # NAB1627849311	1
3	Site Characterization	1
4	NMAC Regulatory Criteria.....	1
5	Site Assessment Activities.....	2
6	Proposed Work Plan.....	2
7	Work Plan Approval Request	3

Tables

Table 1. 2023 Soil Analytical Results

Figures

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

Photographic Logs

Log 1. 2023 Soil Assessment Photographic Log

Appendices

- Appendix A. Initial C-141 Form Incident # NAB1627849311 and Remediation Plan
- Appendix B. Laboratory Analytical Reports

2023 Work Plan

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the SRO SWD #104 (Site). Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on state land approximately 17-miles southwest of the City of Malaga in Unit F, Section 10, Township 26 South, Range 28 East, Eddy County, New Mexico. The site is located within a medium karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAB1627849311

According to the Initial C-141 Form, on October 2, 2016, a 3-inch steel flowline failed due to age and corrosion resulting in the release of approximately 20 barrels (bbls) of produced water to ground surface at the Site with 8 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on October 4, 2016 and assigned Incident ID number NAB1627849311. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. Arcadis contracted Standard Safety to install an exploratory borehole to determine if depth to water (dtw) is greater than 100 feet below ground surface (bgs) as indicated by other water wells installed in the region. The exploratory boring was installed on August 31, 2023, by Standard Safety to a depth of 102 feet bgs. No groundwater was encountered during initial drilling activities. The borehole was left open for 72 hours. Arcadis gauged the exploratory boring again and confirmed the hole remained dry at 102 feet bgs. The borehole was plugged with bentonite grout following gauging activities. The groundwater determination boring location is depicted in **Figure 3**.

4 NMAC Regulatory Criteria

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

2023 Work Plan

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

5 Site Assessment Activities

On August 10-11, 2023, Standard Safety, under the direction of Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of eleven (11) sample points were advanced to depths ranging from the surface to 5 feet bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Soil sample locations are shown on **Figure 3**. Soil samples were collected for chemical analyses, placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for TPH by United States Environmental Protection Agency (EPA) Method 8015; modified BTEX by EPA Method 8021B, and chloride by EPA method 300.0.

Vertical delineation was achieved during the initial soil assessment. Horizontal delineation was assessed as well in each cardinal direction to determine the potential area of concern. Arcadis will use this data and field screening to guide remediation activities prior to collecting any laboratory analytical samples. Soil sample analytical results are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix B**.

6 Proposed Work Plan

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

A cultural resource inventory (CRI) will not be necessary per the New Mexico State Land Office (NMSLO) Cultural Properties Protection (CPP) Rule prior to any excavation activities as all proposed work is on a previously disturbed well pad/historical pit location. If it is determined that additional remediation activities will be required on undisturbed areas at the Site, a CRI will be completed prior to initiation of those activities. Findings from the CRI will be submitted to the NMSLO following completion of the survey and prior to continuation of remediation activities within any previously undisturbed areas.

In accordance with NMAC 19.15.29.12(D)(1)(b) COG proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 400 square foot intervals for analysis of chloride by EPA Method 300.0,

2023 Work Plan

BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c). The proposed excavation encompasses a surface area of approximately 16,740 square feet.

An estimated 3,792 cubic yards of soil will be removed and transported to the nearest NMOCD approved disposal facility. Following completion of excavation activities, the areas will be backfilled with clean material and reclaimed to match the original surface conditions and drainage.

The off pad disturbed areas (former reserve pit area) will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an NMSLO approved seed mixture based on the following soil types: Reagan loam (31.4 %) - Alluvium and/or eolian deposits and Upton gravelly loam (68.6 %) - Residuum weathered from limestone at the site. These soils are well drained.

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

7 Work Plan Approval Request

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

Tables

Table 1
2023 Soil Sample Analytical Results
SRO SWD #104
COG (ConocoPhillips)



Sample ID	Date	Depth (ft)		BTEX Methods				TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (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-1-1'	08/10/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	18.0J B	26.2J B *1	<15.2	44.2J	60.4
S-1-2'	08/10/2023	2		<0.000388	<0.000460	<0.000570	<0.00102	24.8J B	35.3J B *1	<14.9	60.1	114
S-1-4'	08/10/2023	4		<0.000386	<0.000457	<0.000566	<0.00101	30.6J B	22.7J B *1	<14.9	53.3	139
S-1-5'	08/10/2023	5		<0.000387	<0.000459	<0.000568	<0.00102	29.1J B	20.1J B *1	<14.9	49.2J	108
S-2-1'	08/10/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	23.3J B F2	24.8J B	<15.0	48.1J	6390F1
S-2-2'	08/10/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	18.7J B	20.8J B	<15.1	39.5J	3950
S-2-4'	08/10/2023	4		<0.000386	0.000768J	<0.000566	<0.00101	19.4J B	19.5J B	<15.2	38.9J	2530
S-2-5'	08/10/2023	5		<0.000384	<0.000455	<0.000564	<0.00101	18.1J B	19.2J B	<15.0	37.3J	2210
S-3-1'	08/10/2023	1		<0.000382	<0.000452	<0.000561	<0.00100	37.2J B	20.9J B	<14.9	58.1	2180
S-3-2'	08/10/2023	2		0.000767J	<0.000453	<0.000562	<0.00100	33.5J B	20.5J B	<14.9	54.0	3420
S-3-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	22.0J B	20.8J B	<15.0	42.8J	3840
S-3-5'	08/10/2023	5		<0.000387	<0.000458	<0.000567	<0.00101	19.1J B	21.1J B	<15.1	40.2J	4090
S-4-1'	08/10/2023	1		<0.000384	<0.000455	<0.000564	<0.00101	<14.9	<14.9	<14.9	<14.9	1180
S-4-2'	08/10/2023	2		<0.000383	<0.000454	<0.000563	<0.00101	<14.9	<14.9	<14.9	<14.9	765
S-4-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	<14.9	<14.9	<14.9	708
S-4-5'	08/10/2023	5		<0.000382	<0.000452	<0.000561	<0.00100	<14.9	<14.9	<14.9	<14.9	989
S-5-1'	08/10/2023	1		<0.000388	0.000632J	<0.000570	<0.00102	<15.1	<15.1	<15.1	<15.1	52.0
S-5-2'	08/10/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	<15.2	<15.2	<15.2	<15.2	44.4
S-5-4'	08/10/2023	4		<0.000386	<0.000457	<0.000566	<0.00101	<15.1	<15.1	<15.1	<15.1	56.3
S-5-5'	08/10/2023	5		<0.000383	<0.000453	<0.000562	<0.00100	<15.0	<15.0	<15.0	<15.0	42.2
S-6-1'	08/10/2023	1		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	<14.9	<14.9	<14.9	176
S-6-2'	08/10/2023	2		0.000512J	<0.000458	<0.000567	<0.00101	15.2J B	<14.9	<14.9	15.2J	92.1
S-6-4'	08/10/2023	4		<0.000383	<0.000454	<0.000563	<0.00101	<15.0	<15.0	<15.0	<15.0	134
S-6-5'	08/10/2023	5		<0.000385	<0.000456	<0.000565	<0.00101	<15.1	<15.1	<15.1	<15.1	228
S-7-1'	08/10/2023	1		<0.000388	<0.000460	<0.000570	<0.00102	33.2J B	26.7J B	<15.2	59.9	8550
S-7-2'	08/10/2023	2		<0.000384	<0.000455	<0.000564	<0.00101	33.0J B	24.8J B	<15.0	57.8	6730
S-7-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	22.5J B	<14.9	22.5J	7740F1
S-7-5'	08/10/2023	5		<0.000385	<0.000456	<0.000565	<0.00101	20.3J B	21.4J B	<14.9	41.7J	7870
S-8-1'	08/11/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	36.9J B	23.6J B	<15.0	60.5	7300
S-8-2'	08/11/2023	2		<0.000387	<0.000458	<0.000567	<0.00101	22.8J B	21.6J B	<15.1	44.4J	5820
S-8-4'	08/11/2023	4		<0.000387	<0.000459	<0.000568	<0.00102	23.8J B	20.5J B	<15.2	44.3J	4920
S-8-5'	08/11/2023	5		<0.000388	<0.000460	<0.000570	<0.00102	46.8J B	19.8J B	<14.9	66.6	4350
S-9-1'	08/11/2023	1		<0.000386	<0.000457	<0.000566	<0.00101	34.6J B	95.0B	<14.9	130	7500
S-9-2'	08/11/2023	2		<0.000383	<0.000454	<0.000563	<0.00101	28.7J B	29.8J B	<15.0	58.5	5740
S-9-4'	08/11/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	29.9J B	23.5J B	<14.9	53.4	4330
S-9-5'	08/11/2023	5		<0.000389	<0.000461	<0.000571	<0.00102	<14.9	19.3J B	<14.9	19.3J	3390
S-10-1'	08/11/2023	1		<0.000385	<0.000456	<0.000565	<0.00101	24.2J B	51.2	<15.1	75.4	6180
S-10-2'	08/11/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	41.0J B	30.9J	<15.1	71.9	3990
S-10-4'	08/11/2023	4		<0.000387	<0.000459	<0.000568	<0.00102	33.5J B	29.3J	<15.0	62.8	3330
S-10-5'	08/11/2023	5		<0.000386	<0.000457	<0.000566	<0.00101	36.3J B	26.4J	<15.1	62.7	3350
S-11-1'	08/10/2023	1		<0.000383	<0.000453	<0.000562	<0.00100	<15.1	<15.1	<15.1	<15.1	175
S-11-2'	08/10/2023	2		<0.000384	<0.000455	<0.000564	<0.00101	<15.1	<15.1	<15.1	<15.1	308
S-11-4'	08/10/2023	4		<0.000387	0.000966J	<0.000568	<0.00102	<15.1	<15.1	<15.1	<15.1	801
S-11-5'	08/10/2023	5		<0.000386	<0.000457	<0.000566	<0.00101	<15.2	<15.2	<15.2	<15.2	453
NMOCD Reclamation Standard				10	--	--	--	--	--	--	100	600
NMOCD Closure Criteria				10	--	--	--	--	--	--	1,000	20,000

Legend:

Analytes exceeding NMAC Reclamation 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 Hydrocarbon Diesel Range Organics

TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics

" " " : Indicates one foot

S : Backhoe Assessment Sample

Notes:

1. Chloride analyzed by EPA Method 300

2. TPH analyzed by EPA Method 8015 M

3. BTEX analyzed by EPA Method 8260B

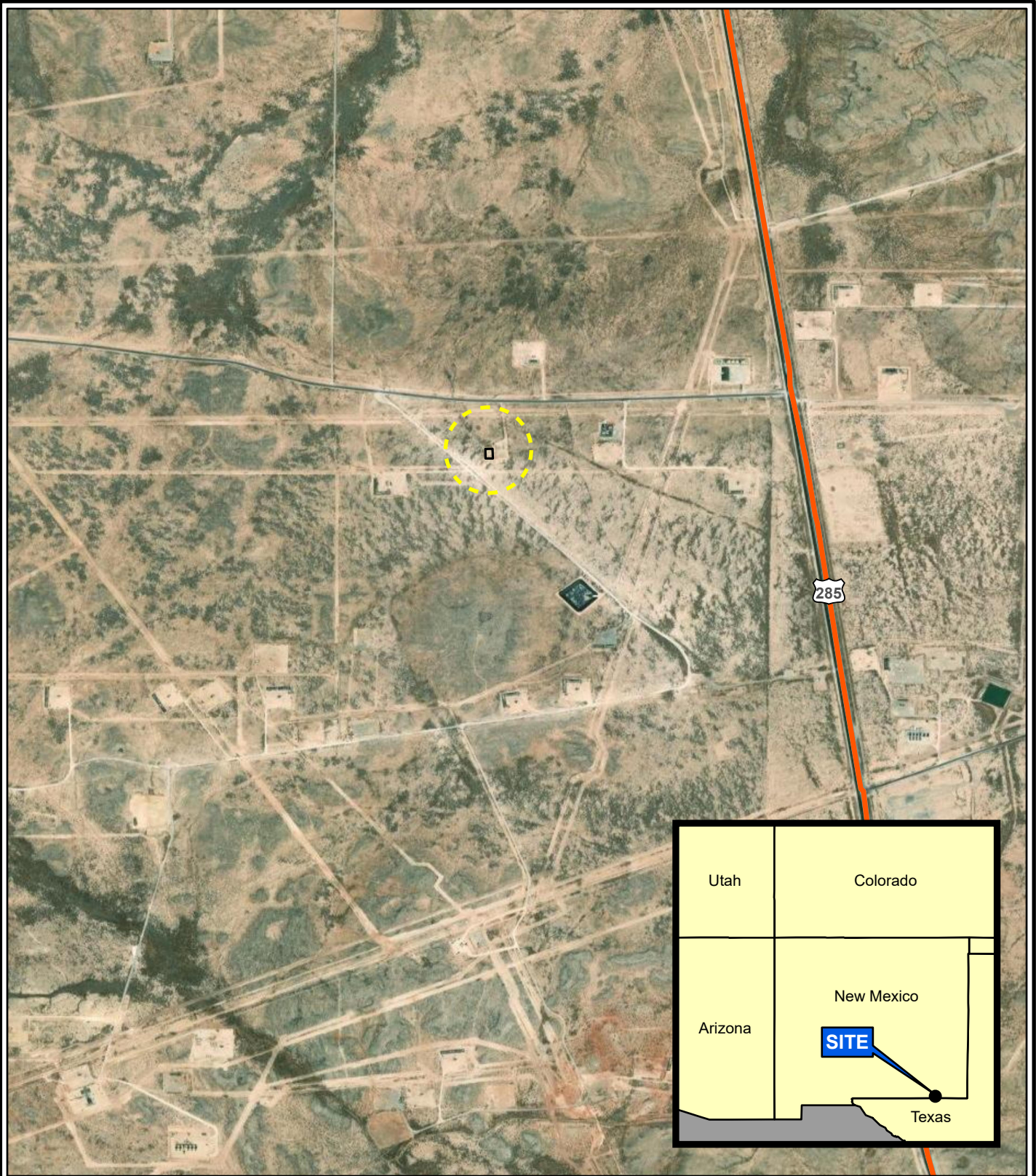
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

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 #)
T:\EHSS\ArcGIS Pro\Land\COGNM\SRO SWD 104\SRO SWD 104.aprx 9/29/2023 9:37 AM



DRAFT

Legend

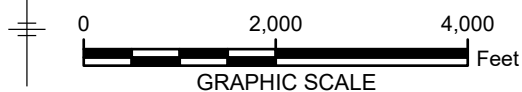
— Site Location

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



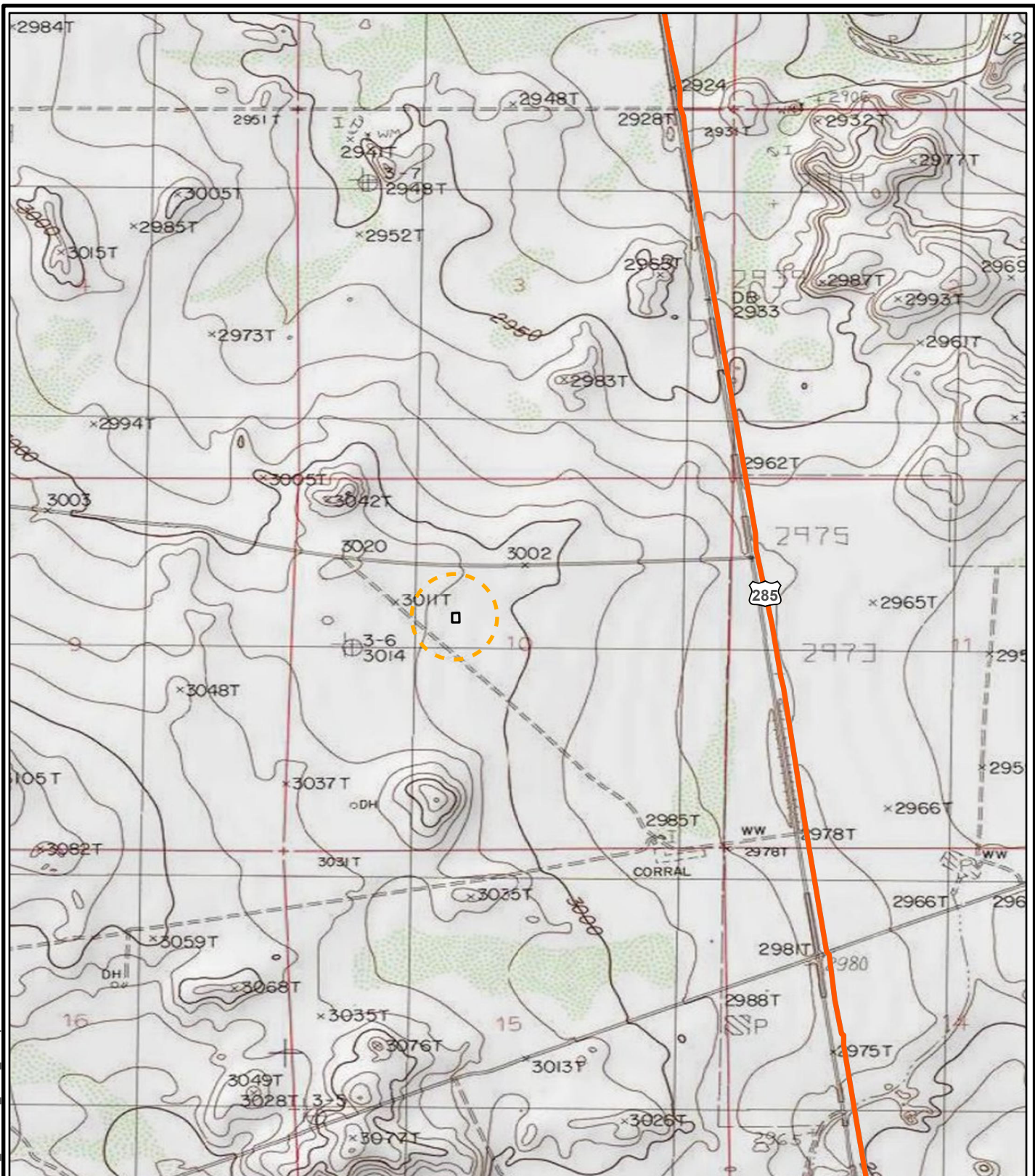
COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP



**FIGURE
1**

City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: wberry Client (Project #)
 T:\EHSS\ArcGIS_ProLand\COG\NM\SRO_SWD_104\SRO_SWD_104.aprx 9/29/2023 9:37 AM



ESRI: USGS Topo Service



DRAFT

Legend

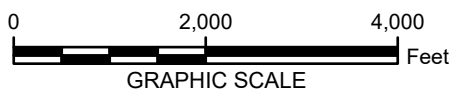
— Site Location

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



COG (CONOCOPHILLIPS)
 SRO SWD #104
 EDDY COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
2



City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COGNM\ISRO SWD_104\ISRO SWD_104.aprx 10/2/2023 10:25 AM

Legend



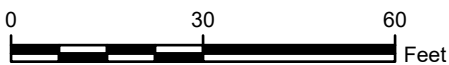
GWDB (Groundwater
Determination Boring)
102 ft bgs

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



GRAPHIC SCALE

COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP

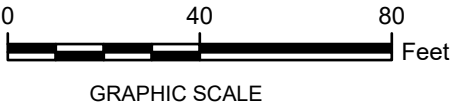


FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG\NM\SRO_SWD_104\SRO_SWD_104.aprx 10/25/2023 10:22 AM



- Legend**
- ★ Release
 - Soil Sample
 - ⦿ Plugged & Abandoned
 - ▭ Historical Pit
 - ▭ Former Tank Battery
 - ⦿ Metal Containment
 - ⦿ Initial Release Footprint
 - Area of Concern



COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

PROPOSED EXCAVATION AND
SAMPLE LOCATION MAP

ARCADIS | **FIGURE 4**

Photographic Logs



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 1	Date: 08/10/2023		
Direction Photo Taken: Facing NE			
Description: S-4 area			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 2	Date: 08/10/2023		
Direction Photo Taken: NW			
Description: Pit Area from S-9			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 3	Date: 08/10/2023		
Direction Photo Taken: SE			
Description: Pit area looking towards tank battery from S-10			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 4	Date: 08/10/2023		
Direction Photo Taken: NE			
Description: S-2 and S-3 area			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 5	Date: 08/10/2023		
Direction Photo Taken: NE			
Description: Groundwater determination boring			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 6	Date: 08/10/2023		
Direction Photo Taken: NE			
Description: Ground water determination boring plugged			

Appendix A

**Initial C-141 Form Incident # NAB1627849311
and Remediation Plan**

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

OCT 04 2016

Form C-141
Revised August 8, 2011

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

RECEIVED
Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

NAB 1627849311

Name of Company:	COG Operating LLC <i>229137</i>	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	SRO SWD #104	Facility Type:	Flowline

Surface Owner:	State	Mineral Owner:	API No.	30-015-25864
----------------	-------	----------------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	26S	28E	1980'	North	1980'	West	Eddy

Latitude 32.0588913 Longitude 104.0774612

NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	20bbbls	Volume Recovered:	8bbbls
Source of Release:	Steel Flowline	Date and Hour of Occurrence:	10-02-2016 4:00 pm	Date and Hour of Discovery:	10-02-2016 4:00 pm
Was Immediate Notice Given?	☐ Yes ☒ No ☒ Not Required	If YES, To Whom?			
By Whom?		Date and Hour:			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 3" steel flowline failed due to age and corrosion. Replaced the bad section with a new joint of 3" steel line.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture a 20X50 area. All free fluids were burnt up in the fire. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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:	<i>Robert Grubbs Jr.</i>	OIL CONSERVATION DIVISION	
Printed Name:	Robert Grubbs Jr.	Signed By:	<i>M. L. Brannan</i>
Title:	Senior Environmental Coordinator	Approved by Environmental Specialist:	
E-mail Address:	rgrubbs@concho.com	Approval Date:	10/4/16
Date:	October 4, 2016	Expiration Date:	N/A
Phone:	432-683-7443	Conditions of Approval:	Remediation per O.C.D. Rules & Guidelines ☐
		SUBMIT REMEDIATION PROPOSAL NO	
		LATER THAN: 11/4/16	

* Attach Additional Sheets If Necessary

2RP-3925

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: SRO SWD #104	Facility Type: SWD
Surface Owner: State	Mineral Owner: State
API No.: 30-015-25864	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	26S	28E	1980	North	1980	West	Eddy

Latitude: 32.0588913 Longitude: -104.0774612 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20bbls	Volume Recovered: 8bbls
Source of Release: Flowline	Date and Hour of Occurrence: 10-2-2016 4:00pm	Date and Hour of Discovery: 10-2-16 4:00pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
A 3" steel flowline failed due to corrosion. The damaged section of line was replaced.		
Describe Area Affected and Cleanup Action Taken.*		
The release occurred on a closed pit area adjacent to the location. The soil was left in situ and treated with Calcium and Magnesium amendments to prevent compromising the legacy pit area.		
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: <i>Sheldon Hitchcock</i>	OIL CONSERVATION DIVISION Closure not approved. Brittany Hall 12/7/2022	
Printed Name: Sheldon L. Hitchcock		
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval:	Attached ☐
Date: 4/26/2018	Phone: 575-746-2010	

* Attach Additional Sheets If Necessary

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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>102</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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: _____ Ike Tavaréz _____ Title: _____ Project Manager RM&R _____

Signature: Ike Tavaréz Date: 10/30/2023email: Ike.Tavaréz@conocophillips.com Telephone: 432-701-8630**OCD Only**Received by: Shelly Wells Date: 11/6/2023

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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: Ike Tavaraz Title: Project Manager RM&R

Signature: *Ike Tavaraz* Date: 10/30/2023

email: Ike.Tavaraz@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: Shelly Wells Date: 11/6/2023

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

Signature: *Ashley Maxwell* Date: 11/30/2023

Remediation plan approved. Variance granted to sample every 400 square feet. Submit a report via the OCD permitting portal by 5/14/2024.

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 8/24/2023 9:49:12 AM

JOB DESCRIPTION

SRO SWD #104
SDG NUMBER Eddy County, NM

JOB NUMBER

880-31967-1

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
8/24/2023 9:49:12 AM

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

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Laboratory Job ID: 880-31967-1
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	39
QC Sample Results	42
QC Association Summary	53
Lab Chronicle	62
Certification Summary	75
Method Summary	76
Sample Summary	77
Chain of Custody	78
Receipt Checklists	82

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Eurofins Midland

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31967-1

Receipt

The samples were received on 8/11/2023 2:12 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 5.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-11-1' (880-31967-1), S-11-2' (880-31967-2), S-11-4' (880-31967-3), S-11-5' (880-31967-4), S-4-1' (880-31967-5), S-4-2' (880-31967-6), S-4-4' (880-31967-7), S-4-5' (880-31967-8), S-5-1' (880-31967-9), S-5-2' (880-31967-10), S-5-4' (880-31967-11), S-5-5' (880-31967-12), S-6-1' (880-31967-13), S-6-2' (880-31967-14), S-6-4' (880-31967-15), S-6-5' (880-31967-16), S-1-1' (880-31967-17), S-1-2' (880-31967-18), S-1-4' (880-31967-19), S-1-5' (880-31967-20), S-2-1' (880-31967-21), S-2-2' (880-31967-22), S-2-4' (880-31967-23), S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), S-7-4' (880-31967-31), S-7-5' (880-31967-32), S-8-1' (880-31967-33), S-8-2' (880-31967-34), S-8-4' (880-31967-35), S-8-5' (880-31967-36), S-9-1' (880-31967-37), S-9-2' (880-31967-38), S-9-4' (880-31967-39), S-9-5' (880-31967-40), S-10-1' (880-31967-41), S-10-2' (880-31967-42), S-10-4' (880-31967-43) and S-10-5' (880-31967-44).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-60733/5-A) and (MB 880-60734/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-11-2' (880-31967-2), S-11-5' (880-31967-4) and S-4-1' (880-31967-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5-2' (880-31967-10), S-6-2' (880-31967-14) and S-1-1' (880-31967-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-3-1' (880-31967-25), S-3-2' (880-31967-26) and S-7-2' (880-31967-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-60733 and analytical batch 880-60781 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60734 and analytical batch 880-60781 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: Surrogate recovery for the following samples were outside control limits: S-7-4' (880-31967-31), S-8-4' (880-31967-35) and S-8-5' (880-31967-36). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-9-4' (880-31967-39) and S-9-5' (880-31967-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60722 and analytical batch 880-60635 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-11-1' (880-31967-1), S-11-2' (880-31967-2), S-4-2' (880-31967-6), S-5-1' (880-31967-9), S-5-2' (880-31967-10), S-5-4' (880-31967-11), S-6-1' (880-31967-13), S-6-2' (880-31967-14), S-6-5' (880-31967-16), S-1-2' (880-31967-18), S-1-4' (880-31967-19), S-1-5' (880-31967-20), (880-31967-A-1-E MS) and

Case Narrative

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

(880-31967-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-60722 and analytical batch 880-60635 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 matrix spike duplicate (MSD) recoveries for preparation batch 880-60722 and analytical batch 880-60635 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-60722 and analytical batch 880-60635 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60635 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-60635/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60635/31), (CCV 880-60635/47) and (CCV 880-60635/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), S-7-4' (880-31967-31), S-8-4' (880-31967-35) and S-9-5' (880-31967-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60723 and analytical batch 880-60637 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60637/31), (CCV 880-60637/47) and (CCV 880-60637/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60723 and analytical batch 880-60637 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 matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-60723 and analytical batch 880-60637 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60816 and analytical batch 880-60778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-10-5' (880-31967-44). 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 880-60778/31) and (CCV 880-60778/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60816 and analytical batch 880-60778 contained Gasoline Range Organics (GRO)-C6-C10 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: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59977 and 880-59977 and analytical batch 880-60062 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-10-1' (880-31967-41), S-10-2' (880-31967-42), S-10-4' (880-31967-43), S-10-5' (880-31967-44), (880-31965-A-5-A), (880-31965-A-5-B MS) and (880-31965-A-5-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59978 and 880-59978 and analytical batch 880-60063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-2-1' (880-31967-21), S-2-2' (880-31967-22), S-2-4' (880-31967-23), S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), (880-31967-A-21-B MS) and (880-31967-A-21-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59978 and analytical batch 880-60063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-7-4' (880-31967-31), S-7-5' (880-31967-32), S-8-1' (880-31967-33), S-8-2' (880-31967-34), S-8-4' (880-31967-35), S-8-5' (880-31967-36), S-9-1' (880-31967-37), S-9-2' (880-31967-38), S-9-4' (880-31967-39), S-9-5' (880-31967-40), (CCV 880-60063/25), (880-31967-A-31-B MS) and (880-31967-A-31-C MSD).

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: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-1'

Lab Sample ID: 880-31967-1

Date Collected: 08/10/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Toluene	<0.000453	U F1	0.00199	0.000453	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Ethylbenzene	<0.000562	U F1	0.00199	0.000562	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
m-Xylene & p-Xylene	<0.00100	U F1	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
o-Xylene	<0.000342	U F1	0.00199	0.000342	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Xylenes, Total	<0.00100	U F1	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/21/23 12:48	08/22/23 17:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/21/23 12:48	08/22/23 17:11	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	08/21/23 11:48	08/21/23 20:19	1
o-Terphenyl	122		70 - 130	08/21/23 11:48	08/21/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.95	0.391	mg/Kg			08/12/23 14:23	1

Client Sample ID: S-11-2'

Lab Sample ID: 880-31967-2

Date Collected: 08/10/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 17:37	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:48	08/22/23 17:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/21/23 12:48	08/22/23 17:37	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	50.2	15.1	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-2'

Lab Sample ID: 880-31967-2

Date Collected: 08/10/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:12

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	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				08/21/23 11:48	08/21/23 21:22	1
o-Terphenyl	129		70 - 130				08/21/23 11:48	08/21/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		4.98	0.393	mg/Kg			08/12/23 14:54	1

Client Sample ID: S-11-4'

Lab Sample ID: 880-31967-3

Date Collected: 08/10/23 10:20

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 18:02	1
Toluene	0.000966	J	0.00201	0.000459	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/21/23 12:48	08/22/23 18:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/21/23 12:48	08/22/23 18:02	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/21/23 11:48	08/21/23 21:43	1
o-Terphenyl	104		70 - 130				08/21/23 11:48	08/21/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	801		4.99	0.394	mg/Kg			08/12/23 15:05	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-5'

Lab Sample ID: 880-31967-4

Date Collected: 08/10/23 10:30

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 18:28	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/21/23 12:48	08/22/23 18:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/21/23 12:48	08/22/23 18:28	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	<15.2	U *1	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/21/23 11:48	08/21/23 22:05	1
o-Terphenyl	115		70 - 130	08/21/23 11:48	08/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		4.97	0.393	mg/Kg			08/12/23 15:15	1

Client Sample ID: S-4-1'

Lab Sample ID: 880-31967-5

Date Collected: 08/10/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 18:54	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	08/21/23 12:48	08/22/23 18:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/21/23 12:48	08/22/23 18:54	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			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-1'

Lab Sample ID: 880-31967-5

Date Collected: 08/10/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				08/21/23 11:48	08/21/23 22:26	1
o-Terphenyl	103		70 - 130				08/21/23 11:48	08/21/23 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.02	0.397	mg/Kg			08/12/23 15:25	1

Client Sample ID: S-4-2'

Lab Sample ID: 880-31967-6

Date Collected: 08/10/23 11:08

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 19:19	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/21/23 12:48	08/22/23 19:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/21/23 12:48	08/22/23 19:19	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				08/21/23 11:48	08/21/23 22:47	1
o-Terphenyl	122		70 - 130				08/21/23 11:48	08/21/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	765		5.02	0.397	mg/Kg			08/12/23 15:57	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-4'

Lab Sample ID: 880-31967-7

Date Collected: 08/10/23 11:15

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg	-	08/21/23 12:48	08/22/23 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:48	08/22/23 19:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 12:48	08/22/23 19:45	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	-		08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.6	14.9	mg/Kg	-	08/21/23 11:48	08/21/23 23:08	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg	-	08/21/23 11:48	08/21/23 23:08	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg	-	08/21/23 11:48	08/21/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 11:48	08/21/23 23:08	1
o-Terphenyl	102		70 - 130	08/21/23 11:48	08/21/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	708		5.04	0.398	mg/Kg	-		08/12/23 16:07	1

Client Sample ID: S-4-5'

Lab Sample ID: 880-31967-8

Date Collected: 08/10/23 11:25

Matrix: Solid

Date Received: 08/11/23 14:12

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	-	08/21/23 12:48	08/22/23 20:10	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg	-	08/21/23 12:48	08/22/23 20:10	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg	-	08/21/23 12:48	08/22/23 20:10	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg	-	08/21/23 12:48	08/22/23 20:10	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg	-	08/21/23 12:48	08/22/23 20:10	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg	-	08/21/23 12:48	08/22/23 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/21/23 12:48	08/22/23 20:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/21/23 12:48	08/22/23 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.6	14.9	mg/Kg	-		08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-5'

Lab Sample ID: 880-31967-8

Date Collected: 08/10/23 11:25

Matrix: Solid

Date Received: 08/11/23 14:12

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	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/21/23 11:48	08/21/23 23:29	1
o-Terphenyl	105		70 - 130				08/21/23 11:48	08/21/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	989		4.99	0.394	mg/Kg			08/12/23 16:17	1

Client Sample ID: S-5-1'

Lab Sample ID: 880-31967-9

Date Collected: 08/10/23 11:40

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 20:36	1
Toluene	0.000632	J	0.00202	0.000460	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/21/23 12:48	08/22/23 20:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/21/23 12:48	08/22/23 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.4	15.1	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				08/21/23 11:48	08/21/23 23:50	1
o-Terphenyl	110		70 - 130				08/21/23 11:48	08/21/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.0		5.01	0.396	mg/Kg			08/12/23 16:28	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-2'

Lab Sample ID: 880-31967-10

Date Collected: 08/10/23 11:48

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/21/23 12:48	08/22/23 21:02	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/21/23 12:48	08/22/23 21:02	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/21/23 12:48	08/22/23 21:02	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:48	08/22/23 21:02	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:48	08/22/23 21:02	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:48	08/22/23 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/21/23 12:48	08/22/23 21:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/21/23 12:48	08/22/23 21:02	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 00:11	1
Diesel Range Organics (Over C10-C28)	<15.2	U *1	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 00:11	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/21/23 11:48	08/22/23 00:11	1
o-Terphenyl	111		70 - 130	08/21/23 11:48	08/22/23 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		5.00	0.395	mg/Kg			08/12/23 16:38	1

Client Sample ID: S-5-4'

Lab Sample ID: 880-31967-11

Date Collected: 08/10/23 11:53

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 22:45	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:48	08/22/23 22:45	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:48	08/22/23 22:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 22:45	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:48	08/22/23 22:45	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/21/23 12:48	08/22/23 22:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:48	08/22/23 22:45	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			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-4'

Lab Sample ID: 880-31967-11

Date Collected: 08/10/23 11:53

Matrix: Solid

Date Received: 08/11/23 14:12

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	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/21/23 11:48	08/22/23 00:54	1
o-Terphenyl	111		70 - 130				08/21/23 11:48	08/22/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3		5.00	0.395	mg/Kg			08/12/23 16:48	1

Client Sample ID: S-5-5'

Lab Sample ID: 880-31967-12

Date Collected: 08/10/23 12:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/22/23 23:11	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/21/23 12:48	08/22/23 23:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/21/23 12:48	08/22/23 23:11	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/21/23 11:48	08/22/23 01:15	1
o-Terphenyl	108		70 - 130				08/21/23 11:48	08/22/23 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		5.02	0.397	mg/Kg			08/12/23 17:20	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-1'

Lab Sample ID: 880-31967-13

Date Collected: 08/10/23 12:55

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/21/23 12:48	08/22/23 23:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/21/23 12:48	08/22/23 23:37	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/21/23 11:48	08/22/23 01:36	1
o-Terphenyl	111		70 - 130	08/21/23 11:48	08/22/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.98	0.393	mg/Kg			08/12/23 17:30	1

Client Sample ID: S-6-2'

Lab Sample ID: 880-31967-14

Date Collected: 08/10/23 13:08

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000512	J	0.00201	0.000387	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	08/21/23 12:48	08/23/23 00:02	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	08/21/23 12:48	08/23/23 00:02	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	J	49.6	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-2'

Lab Sample ID: 880-31967-14

Date Collected: 08/10/23 13:08

Matrix: Solid

Date Received: 08/11/23 14:12

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	J B	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/21/23 11:48	08/22/23 01:57	1
o-Terphenyl	113		70 - 130				08/21/23 11:48	08/22/23 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		4.97	0.393	mg/Kg			08/12/23 18:01	1

Client Sample ID: S-6-4'

Lab Sample ID: 880-31967-15

Date Collected: 08/10/23 13:15

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 00:28	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/21/23 12:48	08/23/23 00:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/21/23 12:48	08/23/23 00:28	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/21/23 11:48	08/22/23 02:19	1
o-Terphenyl	106		70 - 130				08/21/23 11:48	08/22/23 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.96	0.392	mg/Kg			08/12/23 18:11	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-5'

Lab Sample ID: 880-31967-16

Date Collected: 08/10/23 13:20

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 00:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/21/23 12:48	08/23/23 00:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:48	08/23/23 00:54	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			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	08/21/23 11:48	08/22/23 02:40	1
o-Terphenyl	117		70 - 130	08/21/23 11:48	08/22/23 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.04	0.398	mg/Kg			08/12/23 18:22	1

Client Sample ID: S-1-1'

Lab Sample ID: 880-31967-17

Date Collected: 08/10/23 13:35

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 01:20	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	08/21/23 12:48	08/23/23 01:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:48	08/23/23 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.2	J	50.5	15.2	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-1'

Lab Sample ID: 880-31967-17

Date Collected: 08/10/23 13:35

Matrix: Solid

Date Received: 08/11/23 14:12

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	18.0	J B	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1
Diesel Range Organics (Over C10-C28)	26.2	J B *1	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	08/21/23 11:48	08/22/23 03:01	1
o-Terphenyl	110		70 - 130	08/21/23 11:48	08/22/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4		5.05	0.399	mg/Kg			08/12/23 18:32	1

Client Sample ID: S-1-2'

Lab Sample ID: 880-31967-18

Date Collected: 08/10/23 13:40

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 01:45	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/23/23 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/21/23 12:48	08/23/23 01:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/21/23 12:48	08/23/23 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.1		49.8	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.8	J B	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1
Diesel Range Organics (Over C10-C28)	35.3	J B *1	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/21/23 11:48	08/22/23 03:22	1
o-Terphenyl	117		70 - 130	08/21/23 11:48	08/22/23 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.03	0.397	mg/Kg			08/12/23 18:42	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-4'

Lab Sample ID: 880-31967-19

Date Collected: 08/10/23 13:50

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 02:11	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/23/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/21/23 12:48	08/23/23 02:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/21/23 12:48	08/23/23 02:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.3		49.6	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J B	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1
Diesel Range Organics (Over C10-C28)	22.7	J B *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/21/23 11:48	08/22/23 03:44	1
o-Terphenyl	112		70 - 130	08/21/23 11:48	08/22/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		5.03	0.397	mg/Kg			08/12/23 18:53	1

Client Sample ID: S-1-5'

Lab Sample ID: 880-31967-20

Date Collected: 08/10/23 14:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:48	08/23/23 02:37	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/23/23 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/21/23 12:48	08/23/23 02:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/21/23 12:48	08/23/23 02:37	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	49.5	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-5'

Lab Sample ID: 880-31967-20

Date Collected: 08/10/23 14:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	29.1	J B	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1
Diesel Range Organics (Over C10-C28)	20.1	J B *1	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/21/23 11:48	08/22/23 04:05	1
o-Terphenyl	113		70 - 130	08/21/23 11:48	08/22/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.03	0.397	mg/Kg			08/12/23 19:03	1

Client Sample ID: S-2-1'

Lab Sample ID: 880-31967-21

Date Collected: 08/10/23 14:25

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Toluene	<0.000454	U F1	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Ethylbenzene	<0.000563	U F1	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
m-Xylene & p-Xylene	<0.00101	U F1	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
o-Xylene	<0.000343	U F1	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Xylenes, Total	<0.00101	U F1	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/21/23 12:51	08/23/23 06:29	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:51	08/23/23 06:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.1	J	50.1	15.0	mg/Kg			08/22/23 14:01	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	23.3	J B F2	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1
Diesel Range Organics (Over C10-C28)	24.8	J B	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/21/23 11:51	08/21/23 20:19	1
o-Terphenyl	120		70 - 130	08/21/23 11:51	08/21/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6390	F1	50.4	3.98	mg/Kg			08/13/23 15:47	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-2'

Lab Sample ID: 880-31967-22

Date Collected: 08/10/23 14:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 06:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/21/23 12:51	08/23/23 06:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.5	J	50.4	15.1	mg/Kg			08/22/23 14:01	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	18.7	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1
Diesel Range Organics (Over C10-C28)	20.8	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/21/23 11:51	08/21/23 21:22	1
o-Terphenyl	120		70 - 130	08/21/23 11:51	08/21/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3950		25.3	1.99	mg/Kg			08/13/23 16:18	5

Client Sample ID: S-2-4'

Lab Sample ID: 880-31967-23

Date Collected: 08/10/23 14:40

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 07:22	1
Toluene	0.000768	J	0.00200	0.000457	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/21/23 12:51	08/23/23 07:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/21/23 12:51	08/23/23 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.9	J	50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-4'

Lab Sample ID: 880-31967-23

Date Collected: 08/10/23 14:40

Matrix: Solid

Date Received: 08/11/23 14:12

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	19.4	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1
Diesel Range Organics (Over C10-C28)	19.5	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/21/23 21:43	1
o-Terphenyl	127		70 - 130	08/21/23 11:51	08/21/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		25.2	1.99	mg/Kg			08/13/23 16:29	5

Client Sample ID: S-2-5'

Lab Sample ID: 880-31967-24

Date Collected: 08/10/23 14:48

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 07:48	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 07:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/21/23 12:51	08/23/23 07:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.3	J	50.0	15.0	mg/Kg			08/22/23 14:01	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	18.1	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	19.2	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	229	S1+	70 - 130	08/21/23 11:51	08/21/23 22:05	1
o-Terphenyl	251	S1+	70 - 130	08/21/23 11:51	08/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.0	1.97	mg/Kg			08/13/23 16:39	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-1'

Lab Sample ID: 880-31967-25

Date Collected: 08/10/23 15:05

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 08:15	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	08/21/23 12:51	08/23/23 08:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/21/23 12:51	08/23/23 08:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.1		49.7	14.9	mg/Kg			08/22/23 14:01	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	37.2	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1
Diesel Range Organics (Over C10-C28)	20.9	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	235	S1+	70 - 130	08/21/23 11:51	08/21/23 22:26	1
o-Terphenyl	257	S1+	70 - 130	08/21/23 11:51	08/21/23 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		49.7	3.93	mg/Kg			08/13/23 16:49	10

Client Sample ID: S-3-2'

Lab Sample ID: 880-31967-26

Date Collected: 08/10/23 15:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000767	J	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	08/21/23 12:51	08/23/23 08:41	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	08/21/23 12:51	08/23/23 08:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		49.6	14.9	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-2'

Lab Sample ID: 880-31967-26

Date Collected: 08/10/23 15:20

Matrix: Solid

Date Received: 08/11/23 14:12

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	33.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1
Diesel Range Organics (Over C10-C28)	20.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	216	S1+	70 - 130	08/21/23 11:51	08/21/23 22:47	1
o-Terphenyl	235	S1+	70 - 130	08/21/23 11:51	08/21/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3420		24.8	1.96	mg/Kg			08/13/23 17:21	5

Client Sample ID: S-3-4'

Lab Sample ID: 880-31967-27

Date Collected: 08/10/23 15:27

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:51	08/23/23 09:07	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/21/23 12:51	08/23/23 09:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.8	J	50.2	15.0	mg/Kg			08/22/23 14:01	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	22.0	J B	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1
Diesel Range Organics (Over C10-C28)	20.8	J B	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	231	S1+	70 - 130	08/21/23 11:51	08/21/23 23:08	1
o-Terphenyl	254	S1+	70 - 130	08/21/23 11:51	08/21/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		24.8	1.96	mg/Kg			08/13/23 17:31	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-5'

Lab Sample ID: 880-31967-28

Date Collected: 08/10/23 15:35

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 09:33	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 09:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 09:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:51	08/23/23 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.2	J	50.4	15.1	mg/Kg			08/22/23 14:01	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	19.1	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1
Diesel Range Organics (Over C10-C28)	21.1	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	217	S1+	70 - 130	08/21/23 11:51	08/21/23 23:29	1
o-Terphenyl	237	S1+	70 - 130	08/21/23 11:51	08/21/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4090		25.1	1.98	mg/Kg			08/13/23 17:41	5

Client Sample ID: S-7-1'

Lab Sample ID: 880-31967-29

Date Collected: 08/10/23 16:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 09:59	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 09:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:51	08/23/23 09:59	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/21/23 12:51	08/23/23 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.9		50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-1'

Lab Sample ID: 880-31967-29

Date Collected: 08/10/23 16:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	33.2	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1
Diesel Range Organics (Over C10-C28)	26.7	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	222	S1+	70 - 130	08/21/23 11:51	08/21/23 23:50	1
o-Terphenyl	240	S1+	70 - 130	08/21/23 11:51	08/21/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8550		50.2	3.97	mg/Kg			08/13/23 17:52	10

Client Sample ID: S-7-2'

Lab Sample ID: 880-31967-30

Date Collected: 08/10/23 16:10

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 10:25	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/21/23 12:51	08/23/23 10:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/21/23 12:51	08/23/23 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.8		50.0	15.0	mg/Kg			08/22/23 14:01	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	33.0	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1
Diesel Range Organics (Over C10-C28)	24.8	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130	08/21/23 11:51	08/22/23 00:11	1
o-Terphenyl	250	S1+	70 - 130	08/21/23 11:51	08/22/23 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6730		49.8	3.93	mg/Kg			08/13/23 18:02	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-4'

Lab Sample ID: 880-31967-31

Date Collected: 08/10/23 16:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	08/21/23 12:51	08/23/23 12:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/21/23 12:51	08/23/23 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.5	J	49.8	14.9	mg/Kg			08/22/23 14:01	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	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1
Diesel Range Organics (Over C10-C28)	22.5	J B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	258	S1+	70 - 130	08/21/23 11:51	08/22/23 00:54	1
o-Terphenyl	278	S1+	70 - 130	08/21/23 11:51	08/22/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7740	F1	49.5	3.91	mg/Kg			08/13/23 18:13	10

Client Sample ID: S-7-5'

Lab Sample ID: 880-31967-32

Date Collected: 08/10/23 16:27

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 12:34	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/21/23 12:51	08/23/23 12:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130	08/21/23 12:51	08/23/23 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41.7	J	49.6	14.9	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-5'

Lab Sample ID: 880-31967-32

Date Collected: 08/10/23 16:27

Matrix: Solid

Date Received: 08/11/23 14:12

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	20.3	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1
Diesel Range Organics (Over C10-C28)	21.4	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/21/23 11:51	08/22/23 01:15	1
o-Terphenyl	121		70 - 130	08/21/23 11:51	08/22/23 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7870		50.3	3.97	mg/Kg			08/13/23 18:44	10

Client Sample ID: S-8-1'

Lab Sample ID: 880-31967-33

Date Collected: 08/11/23 08:30

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 13:00	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/21/23 12:51	08/23/23 13:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/21/23 12:51	08/23/23 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		49.9	15.0	mg/Kg			08/22/23 14:01	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	36.9	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1
Diesel Range Organics (Over C10-C28)	23.6	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/21/23 11:51	08/22/23 01:36	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7300		50.2	3.97	mg/Kg			08/13/23 18:54	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-2'

Lab Sample ID: 880-31967-34

Date Collected: 08/11/23 09:40

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 13:26	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 13:26	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.4	J	50.4	15.1	mg/Kg			08/22/23 14:01	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	22.8	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1
Diesel Range Organics (Over C10-C28)	21.6	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/22/23 01:57	1
o-Terphenyl	128		70 - 130	08/21/23 11:51	08/22/23 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5820		50.2	3.97	mg/Kg			08/13/23 19:25	10

Client Sample ID: S-8-4'

Lab Sample ID: 880-31967-35

Date Collected: 08/11/23 09:48

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 13:51	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:51	08/23/23 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/21/23 12:51	08/23/23 13:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.3	J	50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-4'

Lab Sample ID: 880-31967-35

Date Collected: 08/11/23 09:48

Matrix: Solid

Date Received: 08/11/23 14:12

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	23.8	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1
Diesel Range Organics (Over C10-C28)	20.5	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 11:51	08/22/23 02:19	1
o-Terphenyl	131	S1+	70 - 130	08/21/23 11:51	08/22/23 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4920		24.9	1.97	mg/Kg			08/13/23 19:35	5

Client Sample ID: S-8-5'

Lab Sample ID: 880-31967-36

Date Collected: 08/11/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 14:17	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:51	08/23/23 14:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.6		49.7	14.9	mg/Kg			08/22/23 14:01	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	46.8	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1
Diesel Range Organics (Over C10-C28)	19.8	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/21/23 11:51	08/22/23 02:40	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4350		24.9	1.96	mg/Kg			08/13/23 19:46	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-1'

Lab Sample ID: 880-31967-37

Date Collected: 08/11/23 10:15

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 14:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 14:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/21/23 12:51	08/23/23 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		49.8	14.9	mg/Kg			08/22/23 14:01	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	34.6	J B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1
Diesel Range Organics (Over C10-C28)	95.0	B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/21/23 11:51	08/22/23 03:01	1
o-Terphenyl	125		70 - 130	08/21/23 11:51	08/22/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7500		101	7.96	mg/Kg			08/13/23 19:56	20

Client Sample ID: S-9-2'

Lab Sample ID: 880-31967-38

Date Collected: 08/11/23 10:21

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/21/23 12:51	08/23/23 15:09	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 15:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/21/23 12:51	08/23/23 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.5		49.9	15.0	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-2'

Lab Sample ID: 880-31967-38

Date Collected: 08/11/23 10:21

Matrix: Solid

Date Received: 08/11/23 14:12

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	28.7	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1
Diesel Range Organics (Over C10-C28)	29.8	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	08/21/23 11:51	08/22/23 03:22	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5740		50.5	3.99	mg/Kg			08/13/23 20:06	10

Client Sample ID: S-9-4'

Lab Sample ID: 880-31967-39

Date Collected: 08/11/23 10:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:51	08/23/23 15:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 12:51	08/23/23 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.4		49.6	14.9	mg/Kg			08/22/23 14:01	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	29.9	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1
Diesel Range Organics (Over C10-C28)	23.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/22/23 03:44	1
o-Terphenyl	127		70 - 130	08/21/23 11:51	08/22/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4330		50.0	3.95	mg/Kg			08/13/23 20:17	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-5'

Lab Sample ID: 880-31967-40

Date Collected: 08/11/23 10:38

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/21/23 12:51	08/23/23 16:01	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:51	08/23/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.3	J	49.5	14.9	mg/Kg			08/22/23 14:01	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	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1
Diesel Range Organics (Over C10-C28)	19.3	J B	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/21/23 11:51	08/22/23 04:05	1
o-Terphenyl	140	S1+	70 - 130	08/21/23 11:51	08/22/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3390		25.0	1.98	mg/Kg			08/13/23 20:27	5

Client Sample ID: S-10-1'

Lab Sample ID: 880-31967-41

Date Collected: 08/11/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/22/23 13:09	08/23/23 06:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/22/23 13:09	08/23/23 06:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/22/23 13:09	08/23/23 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.4		50.3	15.1	mg/Kg			08/23/23 11:48	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-1'

Lab Sample ID: 880-31967-41

Date Collected: 08/11/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	24.2	J B	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1
Diesel Range Organics (Over C10-C28)	51.2		50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/22/23 11:41	08/22/23 21:00	1
o-Terphenyl	119		70 - 130	08/22/23 11:41	08/22/23 21:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6180		100	7.90	mg/Kg			08/13/23 12:30	20

Client Sample ID: S-10-2'

Lab Sample ID: 880-31967-42

Date Collected: 08/11/23 11:10

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/22/23 13:09	08/23/23 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/22/23 13:09	08/23/23 06:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/22/23 13:09	08/23/23 06:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.9		50.3	15.1	mg/Kg			08/23/23 11:48	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	41.0	J B	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1
Diesel Range Organics (Over C10-C28)	30.9	J	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/22/23 11:41	08/22/23 22:06	1
o-Terphenyl	124		70 - 130	08/22/23 11:41	08/22/23 22:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3990		25.0	1.98	mg/Kg			08/13/23 12:40	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-4'

Lab Sample ID: 880-31967-43

Date Collected: 08/11/23 11:21

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/22/23 13:09	08/23/23 07:07	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
o-Xylene	0.000509	J	0.00201	0.000346	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/22/23 13:09	08/23/23 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/22/23 13:09	08/23/23 07:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/22/23 13:09	08/23/23 07:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		50.1	15.0	mg/Kg			08/23/23 11:48	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	33.5	J B	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1
Diesel Range Organics (Over C10-C28)	29.3	J	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/22/23 11:41	08/22/23 22:27	1
o-Terphenyl	129		70 - 130	08/22/23 11:41	08/22/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		25.1	1.98	mg/Kg			08/13/23 12:51	5

Client Sample ID: S-10-5'

Lab Sample ID: 880-31967-44

Date Collected: 08/11/23 11:29

Matrix: Solid

Date Received: 08/11/23 14:12

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		08/22/23 13:09	08/23/23 07:27	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/22/23 13:09	08/23/23 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/22/23 13:09	08/23/23 07:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/22/23 13:09	08/23/23 07:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.7		50.4	15.1	mg/Kg			08/23/23 11:48	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-5'

Lab Sample ID: 880-31967-44

Date Collected: 08/11/23 11:29

Matrix: Solid

Date Received: 08/11/23 14:12

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	36.3	J B	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1
Diesel Range Organics (Over C10-C28)	26.4	J	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/22/23 11:41	08/22/23 22:49	1
o-Terphenyl	139	S1+	70 - 130				08/22/23 11:41	08/22/23 22:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3350		25.3	1.99	mg/Kg			08/13/23 13:01	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-31967-1	S-11-1'	115	96
880-31967-1 MS	S-11-1'	113	110
880-31967-1 MSD	S-11-1'	120	100
880-31967-2	S-11-2'	132 S1+	107
880-31967-3	S-11-4'	128	109
880-31967-4	S-11-5'	147 S1+	111
880-31967-5	S-4-1'	142 S1+	107
880-31967-6	S-4-2'	108	93
880-31967-7	S-4-4'	123	103
880-31967-8	S-4-5'	116	86
880-31967-9	S-5-1'	119	81
880-31967-10	S-5-2'	136 S1+	96
880-31967-11	S-5-4'	129	95
880-31967-12	S-5-5'	127	103
880-31967-13	S-6-1'	120	90
880-31967-14	S-6-2'	153 S1+	134 S1+
880-31967-15	S-6-4'	120	95
880-31967-16	S-6-5'	118	95
880-31967-17	S-1-1'	145 S1+	78
880-31967-18	S-1-2'	122	86
880-31967-19	S-1-4'	116	100
880-31967-20	S-1-5'	117	97
880-31967-21	S-2-1'	101	78
880-31967-21 MS	S-2-1'	120	89
880-31967-21 MSD	S-2-1'	122	96
880-31967-22	S-2-2'	124	92
880-31967-23	S-2-4'	128	91
880-31967-24	S-2-5'	130	94
880-31967-25	S-3-1'	146 S1+	109
880-31967-26	S-3-2'	77	64 S1-
880-31967-27	S-3-4'	123	81
880-31967-28	S-3-5'	124	95
880-31967-29	S-7-1'	123	99
880-31967-30	S-7-2'	136 S1+	90
880-31967-31	S-7-4'	64 S1-	88
880-31967-32	S-7-5'	109	85
880-31967-33	S-8-1'	128	97
880-31967-34	S-8-2'	124	98
880-31967-35	S-8-4'	147 S1+	98
880-31967-36	S-8-5'	132 S1+	98
880-31967-37	S-9-1'	130	102
880-31967-38	S-9-2'	130	94
880-31967-39	S-9-4'	132 S1+	103
880-31967-40	S-9-5'	133 S1+	78
880-31967-41	S-10-1'	89	93
880-31967-42	S-10-2'	96	90
880-31967-43	S-10-4'	100	91
880-31967-44	S-10-5'	99	97
LCS 880-60733/1-A	Lab Control Sample	114	91

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-60734/1-A	Lab Control Sample	103	93
LCS 880-60818/1-A	Lab Control Sample	87	95
LCSD 880-60733/2-A	Lab Control Sample Dup	101	95
LCSD 880-60734/2-A	Lab Control Sample Dup	111	95
LCSD 880-60818/2-A	Lab Control Sample Dup	99	86
MB 880-60732/5-A	Method Blank	99	119
MB 880-60733/5-A	Method Blank	67 S1-	99
MB 880-60734/5-A	Method Blank	61 S1-	81
MB 880-60818/5-A	Method Blank	102	107
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)
880-31967-1	S-11-1'	141 S1+	122
880-31967-1 MS	S-11-1'	141 S1+	111
880-31967-1 MSD	S-11-1'	156 S1+	124
880-31967-2	S-11-2'	148 S1+	129
880-31967-3	S-11-4'	120	104
880-31967-4	S-11-5'	130	115
880-31967-5	S-4-1'	124	103
880-31967-6	S-4-2'	138 S1+	122
880-31967-7	S-4-4'	120	102
880-31967-8	S-4-5'	128	105
880-31967-9	S-5-1'	137 S1+	110
880-31967-10	S-5-2'	133 S1+	111
880-31967-11	S-5-4'	133 S1+	111
880-31967-12	S-5-5'	130	108
880-31967-13	S-6-1'	133 S1+	111
880-31967-14	S-6-2'	133 S1+	113
880-31967-15	S-6-4'	128	106
880-31967-16	S-6-5'	145 S1+	117
880-31967-17	S-1-1'	126	110
880-31967-18	S-1-2'	135 S1+	117
880-31967-19	S-1-4'	132 S1+	112
880-31967-20	S-1-5'	132 S1+	113
880-31967-21	S-2-1'	109	120
880-31967-21 MS	S-2-1'	108	108
880-31967-21 MSD	S-2-1'	102	101
880-31967-22	S-2-2'	110	120
880-31967-23	S-2-4'	116	127
880-31967-24	S-2-5'	229 S1+	251 S1+
880-31967-25	S-3-1'	235 S1+	257 S1+
880-31967-26	S-3-2'	216 S1+	235 S1+
880-31967-27	S-3-4'	231 S1+	254 S1+

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31967-28	S-3-5'	217 S1+	237 S1+
880-31967-29	S-7-1'	222 S1+	240 S1+
880-31967-30	S-7-2'	227 S1+	250 S1+
880-31967-31	S-7-4'	258 S1+	278 S1+
880-31967-32	S-7-5'	111	121
880-31967-33	S-8-1'	118	129
880-31967-34	S-8-2'	116	128
880-31967-35	S-8-4'	120	131 S1+
880-31967-36	S-8-5'	118	129
880-31967-37	S-9-1'	115	125
880-31967-38	S-9-2'	117	129
880-31967-39	S-9-4'	116	127
880-31967-40	S-9-5'	130	140 S1+
880-31967-41	S-10-1'	110	119
880-31967-41 MS	S-10-1'	106	105
880-31967-41 MSD	S-10-1'	103	102
880-31967-42	S-10-2'	113	124
880-31967-43	S-10-4'	120	129
880-31967-44	S-10-5'	130	139 S1+
LCS 880-60722/2-A	Lab Control Sample	126	112
LCS 880-60723/2-A	Lab Control Sample	89	102
LCS 880-60816/2-A	Lab Control Sample	94	107
LCSD 880-60722/3-A	Lab Control Sample Dup	117	104
LCSD 880-60723/3-A	Lab Control Sample Dup	111	128
LCSD 880-60816/3-A	Lab Control Sample Dup	114	129
MB 880-60722/1-A	Method Blank	178 S1+	165 S1+
MB 880-60723/1-A	Method Blank	137 S1+	154 S1+
MB 880-60816/1-A	Method Blank	146 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60732/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:45	08/22/23 16:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/21/23 12:45	08/22/23 16:38	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/21/23 12:45	08/22/23 16:38	1

Lab Sample ID: MB 880-60733/5-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/22/23 16:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	08/21/23 12:48	08/22/23 16:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/21/23 12:48	08/22/23 16:46	1

Lab Sample ID: LCS 880-60733/1-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08433		mg/Kg		84	70 - 130
Toluene	0.100	0.09644		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09282		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1951		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09354		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-60733/2-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08066		mg/Kg		81	70 - 130	4	35

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60733/2-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.07950		mg/Kg		79	70 - 130	19	35
Ethylbenzene	0.100	0.08875		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1786		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.08342		mg/Kg		83	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U F1	0.0996	0.05894	F1	mg/Kg		59	70 - 130
Toluene	<0.000453	U F1	0.0996	0.06113	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.000562	U F1	0.0996	0.06349	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00100	U F1	0.199	0.1264	F1	mg/Kg		63	70 - 130
o-Xylene	<0.000342	U F1	0.0996	0.06191	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U F1	0.101	0.07341		mg/Kg		73	70 - 130	22	35
Toluene	<0.000453	U F1	0.101	0.07975		mg/Kg		79	70 - 130	26	35
Ethylbenzene	<0.000562	U F1	0.101	0.07347		mg/Kg		73	70 - 130	15	35
m-Xylene & p-Xylene	<0.00100	U F1	0.202	0.1460		mg/Kg		72	70 - 130	14	35
o-Xylene	<0.000342	U F1	0.101	0.07758		mg/Kg		77	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-60734/5-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:03	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-60734/5-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130				08/21/23 12:51	08/23/23 06:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/21/23 12:51	08/23/23 06:03	1

Lab Sample ID: LCS 880-60734/1-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08402		mg/Kg		84	70 - 130
Toluene	0.100	0.09828		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09296		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09688		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	103		70 - 130				
1,4-Difluorobenzene (Surr)	93		70 - 130				

Lab Sample ID: LCSD 880-60734/2-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09146		mg/Kg		91	70 - 130	8	35
Toluene	0.100	0.09133		mg/Kg		91	70 - 130	7	35
Ethylbenzene	0.100	0.09612		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1815		mg/Kg		91	70 - 130	4	35
o-Xylene	0.100	0.08945		mg/Kg		89	70 - 130	8	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		70 - 130						
1,4-Difluorobenzene (Surr)	95		70 - 130						

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U F1	0.0996	0.04745	F1	mg/Kg		48	70 - 130
Toluene	<0.000454	U F1	0.0996	0.04950	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.000563	U F1	0.0996	0.04917	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00101	U F1	0.199	0.09087	F1	mg/Kg		46	70 - 130
o-Xylene	<0.000343	U F1	0.0996	0.04975	F1	mg/Kg		50	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U F1	0.101	0.05176	F1	mg/Kg		51	70 - 130	9	35
Toluene	<0.000454	U F1	0.101	0.05191	F1	mg/Kg		51	70 - 130	5	35
Ethylbenzene	<0.000563	U F1	0.101	0.04745	F1	mg/Kg		47	70 - 130	4	35
m-Xylene & p-Xylene	<0.00101	U F1	0.202	0.1021	F1	mg/Kg		51	70 - 130	12	35
o-Xylene	<0.000343	U F1	0.101	0.05165	F1	mg/Kg		51	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-60818/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 04:15	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	102		70 - 130	08/22/23 13:09	08/23/23 04:15	1			
1,4-Difluorobenzene (Surr)	107		70 - 130	08/22/23 13:09	08/23/23 04:15	1			

Lab Sample ID: LCS 880-60818/1-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09278		mg/Kg		93	70 - 130
Toluene	0.100	0.09141		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09066		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130
o-Xylene	0.100	0.07807		mg/Kg		78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-60818/1-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60818

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

Lab Sample ID: LCSD 880-60818/2-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60818

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.08368		mg/Kg		84	70 - 130	10	35		
Toluene	0.100	0.08323		mg/Kg		83	70 - 130	9	35		
Ethylbenzene	0.100	0.07555		mg/Kg		76	70 - 130	18	35		
m-Xylene & p-Xylene	0.200	0.1427		mg/Kg		71	70 - 130	17	35		
o-Xylene	0.100	0.07783		mg/Kg		78	70 - 130	0	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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

Lab Sample ID: MB 880-60722/1-A

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60722

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	16.74	J	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1	
Diesel Range Organics (Over C10-C28)	15.25	J	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	178	S1+	70 - 130	08/21/23 11:48	08/21/23 19:14	1				
o-Terphenyl	165	S1+	70 - 130	08/21/23 11:48	08/21/23 19:14	1				

Lab Sample ID: LCS 880-60722/2-A

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60722

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1083		mg/Kg		108	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1065		mg/Kg		106	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	112		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60722/3-A

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	935.9		mg/Kg		94	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	866.3	*1	mg/Kg		87	70 - 130	21	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	997	877.7		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	997	1231		mg/Kg		123	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	141	S1+	70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60722

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	<15.1	U	997	967.0		mg/Kg		97	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	997	1353	F1	mg/Kg		136	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	156	S1+	70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: MB 880-60723/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.39	J	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1
Diesel Range Organics (Over C10-C28)	18.29	J	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-60723/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60723

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	137	S1+	70 - 130	08/21/23 11:51	08/21/23 19:14	1				
o-Terphenyl	154	S1+	70 - 130	08/21/23 11:51	08/21/23 19:14	1				

Lab Sample ID: LCS 880-60723/2-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60723

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1017		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	901.1		mg/Kg		90	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	102		70 - 130								

Lab Sample ID: LCSD 880-60723/3-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60723

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1030		mg/Kg		103	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)			1000	959.0		mg/Kg		96	70 - 130	6	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	111		70 - 130									
o-Terphenyl	128		70 - 130									

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60723

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	23.3	J B F2	996	800.0		mg/Kg		78	70 - 130			
Diesel Range Organics (Over C10-C28)	24.8	J B	996	964.5		mg/Kg		94	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	108		70 - 130									
o-Terphenyl	108		70 - 130									

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60723

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	23.3	J B F2	996	1165	F2	mg/Kg		115	70 - 130	37	20
Diesel Range Organics (Over C10-C28)	24.8	J B	996	894.7		mg/Kg		87	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-60816/1-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.33	J	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				08/22/23 11:40	08/22/23 19:54	1
o-Terphenyl	163	S1+	70 - 130				08/22/23 11:40	08/22/23 19:54	1

Lab Sample ID: LCS 880-60816/2-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	937.8		mg/Kg		94	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: LCSD 880-60816/3-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60816

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	956.7		mg/Kg		96	70 - 130	2	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60816/3-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60816

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-31967-41 MS

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: S-10-1'

Prep Type: Total/NA

Prep Batch: 60816

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	24.2	J B	999	1238		mg/Kg		121	70 - 130	
Diesel Range Organics (Over C10-C28)	51.2		999	978.0		mg/Kg		93	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	106		70 - 130							
o-Terphenyl	105		70 - 130							

Lab Sample ID: 880-31967-41 MSD

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: S-10-1'

Prep Type: Total/NA

Prep Batch: 60816

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	24.2	J B	999	1226		mg/Kg		120	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	51.2		999	935.3		mg/Kg		88	70 - 130	4	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	103		70 - 130									
o-Terphenyl	102		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59980/1-A

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/12/23 13:52	1	

Lab Sample ID: LCS 880-59980/2-A

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	265.3		mg/Kg		106	90 - 110			

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-59980/3-A

Matrix: Solid

Analysis Batch: 60059

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	266.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-11-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	175		248	405.1		mg/Kg		93	90 - 110		

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-11-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	175		248	404.3		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-31967-11 MS

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-5-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56.3		250	317.8		mg/Kg		105	90 - 110		

Lab Sample ID: 880-31967-11 MSD

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-5-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56.3		250	318.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-59977/1-A

Matrix: Solid

Analysis Batch: 60062

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			08/13/23 07:50	1

Lab Sample ID: LCS 880-59977/2-A

Matrix: Solid

Analysis Batch: 60062

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	274.1		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-59977/3-A

Matrix: Solid

Analysis Batch: 60062

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	274.8		mg/Kg		110	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59978/1-A

Matrix: Solid

Analysis Batch: 60063

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			08/13/23 13:53	1

Lab Sample ID: LCS 880-59978/2-A

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.2		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-59978/3-A

Matrix: Solid

Analysis Batch: 60063

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	271.9		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-2-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6390	F1	2520	9283	F1	mg/Kg		115	90 - 110

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-2-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6390	F1	2520	9235	F1	mg/Kg		113	90 - 110	1	20

Lab Sample ID: 880-31967-31 MS

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-7-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7740	F1	2480	10670	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-31967-31 MSD

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-7-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7740	F1	2480	10620	F1	mg/Kg		116	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 60732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60732/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	5030B	
880-31967-2	S-11-2'	Total/NA	Solid	5030B	
880-31967-3	S-11-4'	Total/NA	Solid	5030B	
880-31967-4	S-11-5'	Total/NA	Solid	5030B	
880-31967-5	S-4-1'	Total/NA	Solid	5030B	
880-31967-6	S-4-2'	Total/NA	Solid	5030B	
880-31967-7	S-4-4'	Total/NA	Solid	5030B	
880-31967-8	S-4-5'	Total/NA	Solid	5030B	
880-31967-9	S-5-1'	Total/NA	Solid	5030B	
880-31967-10	S-5-2'	Total/NA	Solid	5030B	
880-31967-11	S-5-4'	Total/NA	Solid	5030B	
880-31967-12	S-5-5'	Total/NA	Solid	5030B	
880-31967-13	S-6-1'	Total/NA	Solid	5030B	
880-31967-14	S-6-2'	Total/NA	Solid	5030B	
880-31967-15	S-6-4'	Total/NA	Solid	5030B	
880-31967-16	S-6-5'	Total/NA	Solid	5030B	
880-31967-17	S-1-1'	Total/NA	Solid	5030B	
880-31967-18	S-1-2'	Total/NA	Solid	5030B	
880-31967-19	S-1-4'	Total/NA	Solid	5030B	
880-31967-20	S-1-5'	Total/NA	Solid	5030B	
MB 880-60733/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60733/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60733/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-31967-1 MS	S-11-1'	Total/NA	Solid	5030B	
880-31967-1 MSD	S-11-1'	Total/NA	Solid	5030B	

Prep Batch: 60734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	5030B	
880-31967-22	S-2-2'	Total/NA	Solid	5030B	
880-31967-23	S-2-4'	Total/NA	Solid	5030B	
880-31967-24	S-2-5'	Total/NA	Solid	5030B	
880-31967-25	S-3-1'	Total/NA	Solid	5030B	
880-31967-26	S-3-2'	Total/NA	Solid	5030B	
880-31967-27	S-3-4'	Total/NA	Solid	5030B	
880-31967-28	S-3-5'	Total/NA	Solid	5030B	
880-31967-29	S-7-1'	Total/NA	Solid	5030B	
880-31967-30	S-7-2'	Total/NA	Solid	5030B	
880-31967-31	S-7-4'	Total/NA	Solid	5030B	
880-31967-32	S-7-5'	Total/NA	Solid	5030B	
880-31967-33	S-8-1'	Total/NA	Solid	5030B	
880-31967-34	S-8-2'	Total/NA	Solid	5030B	
880-31967-35	S-8-4'	Total/NA	Solid	5030B	
880-31967-36	S-8-5'	Total/NA	Solid	5030B	
880-31967-37	S-9-1'	Total/NA	Solid	5030B	
880-31967-38	S-9-2'	Total/NA	Solid	5030B	
880-31967-39	S-9-4'	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 60734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-40	S-9-5'	Total/NA	Solid	5030B	
MB 880-60734/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60734/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60734/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-31967-21 MS	S-2-1'	Total/NA	Solid	5030B	
880-31967-21 MSD	S-2-1'	Total/NA	Solid	5030B	

Analysis Batch: 60781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-2	S-11-2'	Total/NA	Solid	8021B	60733
880-31967-3	S-11-4'	Total/NA	Solid	8021B	60733
880-31967-4	S-11-5'	Total/NA	Solid	8021B	60733
880-31967-5	S-4-1'	Total/NA	Solid	8021B	60733
880-31967-6	S-4-2'	Total/NA	Solid	8021B	60733
880-31967-7	S-4-4'	Total/NA	Solid	8021B	60733
880-31967-8	S-4-5'	Total/NA	Solid	8021B	60733
880-31967-9	S-5-1'	Total/NA	Solid	8021B	60733
880-31967-10	S-5-2'	Total/NA	Solid	8021B	60733
880-31967-11	S-5-4'	Total/NA	Solid	8021B	60733
880-31967-12	S-5-5'	Total/NA	Solid	8021B	60733
880-31967-13	S-6-1'	Total/NA	Solid	8021B	60733
880-31967-14	S-6-2'	Total/NA	Solid	8021B	60733
880-31967-15	S-6-4'	Total/NA	Solid	8021B	60733
880-31967-16	S-6-5'	Total/NA	Solid	8021B	60733
880-31967-17	S-1-1'	Total/NA	Solid	8021B	60733
880-31967-18	S-1-2'	Total/NA	Solid	8021B	60733
880-31967-19	S-1-4'	Total/NA	Solid	8021B	60733
880-31967-20	S-1-5'	Total/NA	Solid	8021B	60733
880-31967-21	S-2-1'	Total/NA	Solid	8021B	60734
880-31967-22	S-2-2'	Total/NA	Solid	8021B	60734
880-31967-23	S-2-4'	Total/NA	Solid	8021B	60734
880-31967-24	S-2-5'	Total/NA	Solid	8021B	60734
880-31967-25	S-3-1'	Total/NA	Solid	8021B	60734
880-31967-26	S-3-2'	Total/NA	Solid	8021B	60734
880-31967-27	S-3-4'	Total/NA	Solid	8021B	60734
880-31967-28	S-3-5'	Total/NA	Solid	8021B	60734
880-31967-29	S-7-1'	Total/NA	Solid	8021B	60734
880-31967-30	S-7-2'	Total/NA	Solid	8021B	60734
880-31967-31	S-7-4'	Total/NA	Solid	8021B	60734
880-31967-32	S-7-5'	Total/NA	Solid	8021B	60734
880-31967-33	S-8-1'	Total/NA	Solid	8021B	60734
880-31967-34	S-8-2'	Total/NA	Solid	8021B	60734
880-31967-35	S-8-4'	Total/NA	Solid	8021B	60734
880-31967-36	S-8-5'	Total/NA	Solid	8021B	60734
880-31967-37	S-9-1'	Total/NA	Solid	8021B	60734
880-31967-38	S-9-2'	Total/NA	Solid	8021B	60734
880-31967-39	S-9-4'	Total/NA	Solid	8021B	60734
880-31967-40	S-9-5'	Total/NA	Solid	8021B	60734
MB 880-60733/5-A	Method Blank	Total/NA	Solid	8021B	60733
MB 880-60734/5-A	Method Blank	Total/NA	Solid	8021B	60734

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 60781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-60733/1-A	Lab Control Sample	Total/NA	Solid	8021B	60733
LCS 880-60734/1-A	Lab Control Sample	Total/NA	Solid	8021B	60734
LCSD 880-60733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60733
LCSD 880-60734/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60734
880-31967-1 MS	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-21 MS	S-2-1'	Total/NA	Solid	8021B	60734
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8021B	60734

Analysis Batch: 60782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8021B	60818
880-31967-42	S-10-2'	Total/NA	Solid	8021B	60818
880-31967-43	S-10-4'	Total/NA	Solid	8021B	60818
880-31967-44	S-10-5'	Total/NA	Solid	8021B	60818
MB 880-60732/5-A	Method Blank	Total/NA	Solid	8021B	60732
MB 880-60818/5-A	Method Blank	Total/NA	Solid	8021B	60818
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	8021B	60818
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60818

Prep Batch: 60818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	5030B	
880-31967-42	S-10-2'	Total/NA	Solid	5030B	
880-31967-43	S-10-4'	Total/NA	Solid	5030B	
880-31967-44	S-10-5'	Total/NA	Solid	5030B	
MB 880-60818/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 60635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015B NM	60722
880-31967-2	S-11-2'	Total/NA	Solid	8015B NM	60722
880-31967-3	S-11-4'	Total/NA	Solid	8015B NM	60722
880-31967-4	S-11-5'	Total/NA	Solid	8015B NM	60722
880-31967-5	S-4-1'	Total/NA	Solid	8015B NM	60722
880-31967-6	S-4-2'	Total/NA	Solid	8015B NM	60722
880-31967-7	S-4-4'	Total/NA	Solid	8015B NM	60722
880-31967-8	S-4-5'	Total/NA	Solid	8015B NM	60722
880-31967-9	S-5-1'	Total/NA	Solid	8015B NM	60722
880-31967-10	S-5-2'	Total/NA	Solid	8015B NM	60722
880-31967-11	S-5-4'	Total/NA	Solid	8015B NM	60722
880-31967-12	S-5-5'	Total/NA	Solid	8015B NM	60722
880-31967-13	S-6-1'	Total/NA	Solid	8015B NM	60722
880-31967-14	S-6-2'	Total/NA	Solid	8015B NM	60722
880-31967-15	S-6-4'	Total/NA	Solid	8015B NM	60722
880-31967-16	S-6-5'	Total/NA	Solid	8015B NM	60722
880-31967-17	S-1-1'	Total/NA	Solid	8015B NM	60722

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-18	S-1-2'	Total/NA	Solid	8015B NM	60722
880-31967-19	S-1-4'	Total/NA	Solid	8015B NM	60722
880-31967-20	S-1-5'	Total/NA	Solid	8015B NM	60722
MB 880-60722/1-A	Method Blank	Total/NA	Solid	8015B NM	60722
LCS 880-60722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60722
LCSD 880-60722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60722
880-31967-1 MS	S-11-1'	Total/NA	Solid	8015B NM	60722
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8015B NM	60722

Analysis Batch: 60637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	8015B NM	60723
880-31967-22	S-2-2'	Total/NA	Solid	8015B NM	60723
880-31967-23	S-2-4'	Total/NA	Solid	8015B NM	60723
880-31967-24	S-2-5'	Total/NA	Solid	8015B NM	60723
880-31967-25	S-3-1'	Total/NA	Solid	8015B NM	60723
880-31967-26	S-3-2'	Total/NA	Solid	8015B NM	60723
880-31967-27	S-3-4'	Total/NA	Solid	8015B NM	60723
880-31967-28	S-3-5'	Total/NA	Solid	8015B NM	60723
880-31967-29	S-7-1'	Total/NA	Solid	8015B NM	60723
880-31967-30	S-7-2'	Total/NA	Solid	8015B NM	60723
880-31967-31	S-7-4'	Total/NA	Solid	8015B NM	60723
880-31967-32	S-7-5'	Total/NA	Solid	8015B NM	60723
880-31967-33	S-8-1'	Total/NA	Solid	8015B NM	60723
880-31967-34	S-8-2'	Total/NA	Solid	8015B NM	60723
880-31967-35	S-8-4'	Total/NA	Solid	8015B NM	60723
880-31967-36	S-8-5'	Total/NA	Solid	8015B NM	60723
880-31967-37	S-9-1'	Total/NA	Solid	8015B NM	60723
880-31967-38	S-9-2'	Total/NA	Solid	8015B NM	60723
880-31967-39	S-9-4'	Total/NA	Solid	8015B NM	60723
880-31967-40	S-9-5'	Total/NA	Solid	8015B NM	60723
MB 880-60723/1-A	Method Blank	Total/NA	Solid	8015B NM	60723
LCS 880-60723/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60723
LCSD 880-60723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60723
880-31967-21 MS	S-2-1'	Total/NA	Solid	8015B NM	60723
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8015B NM	60723

Prep Batch: 60722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015NM Prep	
880-31967-2	S-11-2'	Total/NA	Solid	8015NM Prep	
880-31967-3	S-11-4'	Total/NA	Solid	8015NM Prep	
880-31967-4	S-11-5'	Total/NA	Solid	8015NM Prep	
880-31967-5	S-4-1'	Total/NA	Solid	8015NM Prep	
880-31967-6	S-4-2'	Total/NA	Solid	8015NM Prep	
880-31967-7	S-4-4'	Total/NA	Solid	8015NM Prep	
880-31967-8	S-4-5'	Total/NA	Solid	8015NM Prep	
880-31967-9	S-5-1'	Total/NA	Solid	8015NM Prep	
880-31967-10	S-5-2'	Total/NA	Solid	8015NM Prep	
880-31967-11	S-5-4'	Total/NA	Solid	8015NM Prep	
880-31967-12	S-5-5'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 60722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-13	S-6-1'	Total/NA	Solid	8015NM Prep	
880-31967-14	S-6-2'	Total/NA	Solid	8015NM Prep	
880-31967-15	S-6-4'	Total/NA	Solid	8015NM Prep	
880-31967-16	S-6-5'	Total/NA	Solid	8015NM Prep	
880-31967-17	S-1-1'	Total/NA	Solid	8015NM Prep	
880-31967-18	S-1-2'	Total/NA	Solid	8015NM Prep	
880-31967-19	S-1-4'	Total/NA	Solid	8015NM Prep	
880-31967-20	S-1-5'	Total/NA	Solid	8015NM Prep	
MB 880-60722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-1 MS	S-11-1'	Total/NA	Solid	8015NM Prep	
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 60723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	8015NM Prep	
880-31967-22	S-2-2'	Total/NA	Solid	8015NM Prep	
880-31967-23	S-2-4'	Total/NA	Solid	8015NM Prep	
880-31967-24	S-2-5'	Total/NA	Solid	8015NM Prep	
880-31967-25	S-3-1'	Total/NA	Solid	8015NM Prep	
880-31967-26	S-3-2'	Total/NA	Solid	8015NM Prep	
880-31967-27	S-3-4'	Total/NA	Solid	8015NM Prep	
880-31967-28	S-3-5'	Total/NA	Solid	8015NM Prep	
880-31967-29	S-7-1'	Total/NA	Solid	8015NM Prep	
880-31967-30	S-7-2'	Total/NA	Solid	8015NM Prep	
880-31967-31	S-7-4'	Total/NA	Solid	8015NM Prep	
880-31967-32	S-7-5'	Total/NA	Solid	8015NM Prep	
880-31967-33	S-8-1'	Total/NA	Solid	8015NM Prep	
880-31967-34	S-8-2'	Total/NA	Solid	8015NM Prep	
880-31967-35	S-8-4'	Total/NA	Solid	8015NM Prep	
880-31967-36	S-8-5'	Total/NA	Solid	8015NM Prep	
880-31967-37	S-9-1'	Total/NA	Solid	8015NM Prep	
880-31967-38	S-9-2'	Total/NA	Solid	8015NM Prep	
880-31967-39	S-9-4'	Total/NA	Solid	8015NM Prep	
880-31967-40	S-9-5'	Total/NA	Solid	8015NM Prep	
MB 880-60723/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60723/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-21 MS	S-2-1'	Total/NA	Solid	8015NM Prep	
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8015B NM	60816
880-31967-42	S-10-2'	Total/NA	Solid	8015B NM	60816
880-31967-43	S-10-4'	Total/NA	Solid	8015B NM	60816
880-31967-44	S-10-5'	Total/NA	Solid	8015B NM	60816
MB 880-60816/1-A	Method Blank	Total/NA	Solid	8015B NM	60816
LCS 880-60816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60816
LCSD 880-60816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60816

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41 MS	S-10-1'	Total/NA	Solid	8015B NM	60816
880-31967-41 MSD	S-10-1'	Total/NA	Solid	8015B NM	60816

Prep Batch: 60816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8015NM Prep	
880-31967-42	S-10-2'	Total/NA	Solid	8015NM Prep	
880-31967-43	S-10-4'	Total/NA	Solid	8015NM Prep	
880-31967-44	S-10-5'	Total/NA	Solid	8015NM Prep	
MB 880-60816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-41 MS	S-10-1'	Total/NA	Solid	8015NM Prep	
880-31967-41 MSD	S-10-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015 NM	
880-31967-2	S-11-2'	Total/NA	Solid	8015 NM	
880-31967-3	S-11-4'	Total/NA	Solid	8015 NM	
880-31967-4	S-11-5'	Total/NA	Solid	8015 NM	
880-31967-5	S-4-1'	Total/NA	Solid	8015 NM	
880-31967-6	S-4-2'	Total/NA	Solid	8015 NM	
880-31967-7	S-4-4'	Total/NA	Solid	8015 NM	
880-31967-8	S-4-5'	Total/NA	Solid	8015 NM	
880-31967-9	S-5-1'	Total/NA	Solid	8015 NM	
880-31967-10	S-5-2'	Total/NA	Solid	8015 NM	
880-31967-11	S-5-4'	Total/NA	Solid	8015 NM	
880-31967-12	S-5-5'	Total/NA	Solid	8015 NM	
880-31967-13	S-6-1'	Total/NA	Solid	8015 NM	
880-31967-14	S-6-2'	Total/NA	Solid	8015 NM	
880-31967-15	S-6-4'	Total/NA	Solid	8015 NM	
880-31967-16	S-6-5'	Total/NA	Solid	8015 NM	
880-31967-17	S-1-1'	Total/NA	Solid	8015 NM	
880-31967-18	S-1-2'	Total/NA	Solid	8015 NM	
880-31967-19	S-1-4'	Total/NA	Solid	8015 NM	
880-31967-20	S-1-5'	Total/NA	Solid	8015 NM	
880-31967-21	S-2-1'	Total/NA	Solid	8015 NM	
880-31967-22	S-2-2'	Total/NA	Solid	8015 NM	
880-31967-23	S-2-4'	Total/NA	Solid	8015 NM	
880-31967-24	S-2-5'	Total/NA	Solid	8015 NM	
880-31967-25	S-3-1'	Total/NA	Solid	8015 NM	
880-31967-26	S-3-2'	Total/NA	Solid	8015 NM	
880-31967-27	S-3-4'	Total/NA	Solid	8015 NM	
880-31967-28	S-3-5'	Total/NA	Solid	8015 NM	
880-31967-29	S-7-1'	Total/NA	Solid	8015 NM	
880-31967-30	S-7-2'	Total/NA	Solid	8015 NM	
880-31967-31	S-7-4'	Total/NA	Solid	8015 NM	
880-31967-32	S-7-5'	Total/NA	Solid	8015 NM	
880-31967-33	S-8-1'	Total/NA	Solid	8015 NM	
880-31967-34	S-8-2'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-35	S-8-4'	Total/NA	Solid	8015 NM	
880-31967-36	S-8-5'	Total/NA	Solid	8015 NM	
880-31967-37	S-9-1'	Total/NA	Solid	8015 NM	
880-31967-38	S-9-2'	Total/NA	Solid	8015 NM	
880-31967-39	S-9-4'	Total/NA	Solid	8015 NM	
880-31967-40	S-9-5'	Total/NA	Solid	8015 NM	
880-31967-41	S-10-1'	Total/NA	Solid	8015 NM	
880-31967-42	S-10-2'	Total/NA	Solid	8015 NM	
880-31967-43	S-10-4'	Total/NA	Solid	8015 NM	
880-31967-44	S-10-5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Soluble	Solid	DI Leach	
880-31967-42	S-10-2'	Soluble	Solid	DI Leach	
880-31967-43	S-10-4'	Soluble	Solid	DI Leach	
880-31967-44	S-10-5'	Soluble	Solid	DI Leach	
MB 880-59977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 59978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Soluble	Solid	DI Leach	
880-31967-22	S-2-2'	Soluble	Solid	DI Leach	
880-31967-23	S-2-4'	Soluble	Solid	DI Leach	
880-31967-24	S-2-5'	Soluble	Solid	DI Leach	
880-31967-25	S-3-1'	Soluble	Solid	DI Leach	
880-31967-26	S-3-2'	Soluble	Solid	DI Leach	
880-31967-27	S-3-4'	Soluble	Solid	DI Leach	
880-31967-28	S-3-5'	Soluble	Solid	DI Leach	
880-31967-29	S-7-1'	Soluble	Solid	DI Leach	
880-31967-30	S-7-2'	Soluble	Solid	DI Leach	
880-31967-31	S-7-4'	Soluble	Solid	DI Leach	
880-31967-32	S-7-5'	Soluble	Solid	DI Leach	
880-31967-33	S-8-1'	Soluble	Solid	DI Leach	
880-31967-34	S-8-2'	Soluble	Solid	DI Leach	
880-31967-35	S-8-4'	Soluble	Solid	DI Leach	
880-31967-36	S-8-5'	Soluble	Solid	DI Leach	
880-31967-37	S-9-1'	Soluble	Solid	DI Leach	
880-31967-38	S-9-2'	Soluble	Solid	DI Leach	
880-31967-39	S-9-4'	Soluble	Solid	DI Leach	
880-31967-40	S-9-5'	Soluble	Solid	DI Leach	
MB 880-59978/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59978/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59978/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31967-21 MS	S-2-1'	Soluble	Solid	DI Leach	
880-31967-21 MSD	S-2-1'	Soluble	Solid	DI Leach	
880-31967-31 MS	S-7-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 59978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-31 MSD	S-7-4'	Soluble	Solid	DI Leach	

Leach Batch: 59980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Soluble	Solid	DI Leach	
880-31967-2	S-11-2'	Soluble	Solid	DI Leach	
880-31967-3	S-11-4'	Soluble	Solid	DI Leach	
880-31967-4	S-11-5'	Soluble	Solid	DI Leach	
880-31967-5	S-4-1'	Soluble	Solid	DI Leach	
880-31967-6	S-4-2'	Soluble	Solid	DI Leach	
880-31967-7	S-4-4'	Soluble	Solid	DI Leach	
880-31967-8	S-4-5'	Soluble	Solid	DI Leach	
880-31967-9	S-5-1'	Soluble	Solid	DI Leach	
880-31967-10	S-5-2'	Soluble	Solid	DI Leach	
880-31967-11	S-5-4'	Soluble	Solid	DI Leach	
880-31967-12	S-5-5'	Soluble	Solid	DI Leach	
880-31967-13	S-6-1'	Soluble	Solid	DI Leach	
880-31967-14	S-6-2'	Soluble	Solid	DI Leach	
880-31967-15	S-6-4'	Soluble	Solid	DI Leach	
880-31967-16	S-6-5'	Soluble	Solid	DI Leach	
880-31967-17	S-1-1'	Soluble	Solid	DI Leach	
880-31967-18	S-1-2'	Soluble	Solid	DI Leach	
880-31967-19	S-1-4'	Soluble	Solid	DI Leach	
880-31967-20	S-1-5'	Soluble	Solid	DI Leach	
MB 880-59980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31967-1 MS	S-11-1'	Soluble	Solid	DI Leach	
880-31967-1 MSD	S-11-1'	Soluble	Solid	DI Leach	
880-31967-11 MS	S-5-4'	Soluble	Solid	DI Leach	
880-31967-11 MSD	S-5-4'	Soluble	Solid	DI Leach	

Analysis Batch: 60059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Soluble	Solid	300.0	59980
880-31967-2	S-11-2'	Soluble	Solid	300.0	59980
880-31967-3	S-11-4'	Soluble	Solid	300.0	59980
880-31967-4	S-11-5'	Soluble	Solid	300.0	59980
880-31967-5	S-4-1'	Soluble	Solid	300.0	59980
880-31967-6	S-4-2'	Soluble	Solid	300.0	59980
880-31967-7	S-4-4'	Soluble	Solid	300.0	59980
880-31967-8	S-4-5'	Soluble	Solid	300.0	59980
880-31967-9	S-5-1'	Soluble	Solid	300.0	59980
880-31967-10	S-5-2'	Soluble	Solid	300.0	59980
880-31967-11	S-5-4'	Soluble	Solid	300.0	59980
880-31967-12	S-5-5'	Soluble	Solid	300.0	59980
880-31967-13	S-6-1'	Soluble	Solid	300.0	59980
880-31967-14	S-6-2'	Soluble	Solid	300.0	59980
880-31967-15	S-6-4'	Soluble	Solid	300.0	59980
880-31967-16	S-6-5'	Soluble	Solid	300.0	59980
880-31967-17	S-1-1'	Soluble	Solid	300.0	59980

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 60059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-18	S-1-2'	Soluble	Solid	300.0	59980
880-31967-19	S-1-4'	Soluble	Solid	300.0	59980
880-31967-20	S-1-5'	Soluble	Solid	300.0	59980
MB 880-59980/1-A	Method Blank	Soluble	Solid	300.0	59980
LCS 880-59980/2-A	Lab Control Sample	Soluble	Solid	300.0	59980
LCSD 880-59980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59980
880-31967-1 MS	S-11-1'	Soluble	Solid	300.0	59980
880-31967-1 MSD	S-11-1'	Soluble	Solid	300.0	59980
880-31967-11 MS	S-5-4'	Soluble	Solid	300.0	59980
880-31967-11 MSD	S-5-4'	Soluble	Solid	300.0	59980

Analysis Batch: 60062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Soluble	Solid	300.0	59977
880-31967-42	S-10-2'	Soluble	Solid	300.0	59977
880-31967-43	S-10-4'	Soluble	Solid	300.0	59977
880-31967-44	S-10-5'	Soluble	Solid	300.0	59977
MB 880-59977/1-A	Method Blank	Soluble	Solid	300.0	59977
LCS 880-59977/2-A	Lab Control Sample	Soluble	Solid	300.0	59977
LCSD 880-59977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59977

Analysis Batch: 60063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Soluble	Solid	300.0	59978
880-31967-22	S-2-2'	Soluble	Solid	300.0	59978
880-31967-23	S-2-4'	Soluble	Solid	300.0	59978
880-31967-24	S-2-5'	Soluble	Solid	300.0	59978
880-31967-25	S-3-1'	Soluble	Solid	300.0	59978
880-31967-26	S-3-2'	Soluble	Solid	300.0	59978
880-31967-27	S-3-4'	Soluble	Solid	300.0	59978
880-31967-28	S-3-5'	Soluble	Solid	300.0	59978
880-31967-29	S-7-1'	Soluble	Solid	300.0	59978
880-31967-30	S-7-2'	Soluble	Solid	300.0	59978
880-31967-31	S-7-4'	Soluble	Solid	300.0	59978
880-31967-32	S-7-5'	Soluble	Solid	300.0	59978
880-31967-33	S-8-1'	Soluble	Solid	300.0	59978
880-31967-34	S-8-2'	Soluble	Solid	300.0	59978
880-31967-35	S-8-4'	Soluble	Solid	300.0	59978
880-31967-36	S-8-5'	Soluble	Solid	300.0	59978
880-31967-37	S-9-1'	Soluble	Solid	300.0	59978
880-31967-38	S-9-2'	Soluble	Solid	300.0	59978
880-31967-39	S-9-4'	Soluble	Solid	300.0	59978
880-31967-40	S-9-5'	Soluble	Solid	300.0	59978
MB 880-59978/1-A	Method Blank	Soluble	Solid	300.0	59978
LCS 880-59978/2-A	Lab Control Sample	Soluble	Solid	300.0	59978
LCSD 880-59978/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59978
880-31967-21 MS	S-2-1'	Soluble	Solid	300.0	59978
880-31967-21 MSD	S-2-1'	Soluble	Solid	300.0	59978
880-31967-31 MS	S-7-4'	Soluble	Solid	300.0	59978
880-31967-31 MSD	S-7-4'	Soluble	Solid	300.0	59978

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-1'**Lab Sample ID: 880-31967-1****Date Collected: 08/10/23 10:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 14:23	SMC	EET MID

Client Sample ID: S-11-2'**Lab Sample ID: 880-31967-2****Date Collected: 08/10/23 10:10****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 21:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 14:54	SMC	EET MID

Client Sample ID: S-11-4'**Lab Sample ID: 880-31967-3****Date Collected: 08/10/23 10:20****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:05	SMC	EET MID

Client Sample ID: S-11-5'**Lab Sample ID: 880-31967-4****Date Collected: 08/10/23 10:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-5'**Lab Sample ID: 880-31967-4****Date Collected: 08/10/23 10:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:15	SMC	EET MID

Client Sample ID: S-4-1'**Lab Sample ID: 880-31967-5****Date Collected: 08/10/23 11:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:25	SMC	EET MID

Client Sample ID: S-4-2'**Lab Sample ID: 880-31967-6****Date Collected: 08/10/23 11:08****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 19:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:57	SMC	EET MID

Client Sample ID: S-4-4'**Lab Sample ID: 880-31967-7****Date Collected: 08/10/23 11:15****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:07	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-5'

Lab Sample ID: 880-31967-8

Date Collected: 08/10/23 11:25

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:17	SMC	EET MID

Client Sample ID: S-5-1'

Lab Sample ID: 880-31967-9

Date Collected: 08/10/23 11:40

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 20:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:28	SMC	EET MID

Client Sample ID: S-5-2'

Lab Sample ID: 880-31967-10

Date Collected: 08/10/23 11:48

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 21:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:38	SMC	EET MID

Client Sample ID: S-5-4'

Lab Sample ID: 880-31967-11

Date Collected: 08/10/23 11:53

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 00:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-4'**Lab Sample ID: 880-31967-11****Date Collected: 08/10/23 11:53****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:48	SMC	EET MID

Client Sample ID: S-5-5'**Lab Sample ID: 880-31967-12****Date Collected: 08/10/23 12:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 23:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 17:20	SMC	EET MID

Client Sample ID: S-6-1'**Lab Sample ID: 880-31967-13****Date Collected: 08/10/23 12:55****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 23:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 17:30	SMC	EET MID

Client Sample ID: S-6-2'**Lab Sample ID: 880-31967-14****Date Collected: 08/10/23 13:08****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:01	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-4'

Lab Sample ID: 880-31967-15

Date Collected: 08/10/23 13:15

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:11	SMC	EET MID

Client Sample ID: S-6-5'

Lab Sample ID: 880-31967-16

Date Collected: 08/10/23 13:20

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 02:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:22	SMC	EET MID

Client Sample ID: S-1-1'

Lab Sample ID: 880-31967-17

Date Collected: 08/10/23 13:35

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 01:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:32	SMC	EET MID

Client Sample ID: S-1-2'

Lab Sample ID: 880-31967-18

Date Collected: 08/10/23 13:40

Matrix: Solid

Date Received: 08/11/23 14:12

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 01:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-2'**Lab Sample ID: 880-31967-18****Date Collected: 08/10/23 13:40****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:42	SMC	EET MID

Client Sample ID: S-1-4'**Lab Sample ID: 880-31967-19****Date Collected: 08/10/23 13:50****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 02:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:53	SMC	EET MID

Client Sample ID: S-1-5'**Lab Sample ID: 880-31967-20****Date Collected: 08/10/23 14:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 02:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 19:03	SMC	EET MID

Client Sample ID: S-2-1'**Lab Sample ID: 880-31967-21****Date Collected: 08/10/23 14:25****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 06:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 15:47	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-2'

Lab Sample ID: 880-31967-22

Date Collected: 08/10/23 14:30

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 21:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:18	SMC	EET MID

Client Sample ID: S-2-4'

Lab Sample ID: 880-31967-23

Date Collected: 08/10/23 14:40

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 07:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:29	SMC	EET MID

Client Sample ID: S-2-5'

Lab Sample ID: 880-31967-24

Date Collected: 08/10/23 14:48

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 07:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:39	SMC	EET MID

Client Sample ID: S-3-1'

Lab Sample ID: 880-31967-25

Date Collected: 08/10/23 15:05

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 08:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-1'

Lab Sample ID: 880-31967-25

Date Collected: 08/10/23 15:05

Matrix: Solid

Date Received: 08/11/23 14:12

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	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 16:49	SMC	EET MID

Client Sample ID: S-3-2'

Lab Sample ID: 880-31967-26

Date Collected: 08/10/23 15:20

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 08:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:21	SMC	EET MID

Client Sample ID: S-3-4'

Lab Sample ID: 880-31967-27

Date Collected: 08/10/23 15:27

Matrix: Solid

Date Received: 08/11/23 14:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:31	SMC	EET MID

Client Sample ID: S-3-5'

Lab Sample ID: 880-31967-28

Date Collected: 08/10/23 15:35

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:29	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:41	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-1'

Lab Sample ID: 880-31967-29

Date Collected: 08/10/23 16:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 17:52	SMC	EET MID

Client Sample ID: S-7-2'

Lab Sample ID: 880-31967-30

Date Collected: 08/10/23 16:10

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 10:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:02	SMC	EET MID

Client Sample ID: S-7-4'

Lab Sample ID: 880-31967-31

Date Collected: 08/10/23 16:20

Matrix: Solid

Date Received: 08/11/23 14:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:13	SMC	EET MID

Client Sample ID: S-7-5'

Lab Sample ID: 880-31967-32

Date Collected: 08/10/23 16:27

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-5'**Lab Sample ID: 880-31967-32****Date Collected: 08/10/23 16:27****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:44	SMC	EET MID

Client Sample ID: S-8-1'**Lab Sample ID: 880-31967-33****Date Collected: 08/11/23 08:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:54	SMC	EET MID

Client Sample ID: S-8-2'**Lab Sample ID: 880-31967-34****Date Collected: 08/11/23 09:40****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 19:25	SMC	EET MID

Client Sample ID: S-8-4'**Lab Sample ID: 880-31967-35****Date Collected: 08/11/23 09:48****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 19:35	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-5'

Lab Sample ID: 880-31967-36

Date Collected: 08/11/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 02:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 19:46	SMC	EET MID

Client Sample ID: S-9-1'

Lab Sample ID: 880-31967-37

Date Collected: 08/11/23 10:15

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	60063	08/13/23 19:56	SMC	EET MID

Client Sample ID: S-9-2'

Lab Sample ID: 880-31967-38

Date Collected: 08/11/23 10:21

Matrix: Solid

Date Received: 08/11/23 14:12

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 20:06	SMC	EET MID

Client Sample ID: S-9-4'

Lab Sample ID: 880-31967-39

Date Collected: 08/11/23 10:30

Matrix: Solid

Date Received: 08/11/23 14:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 15:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-4'**Lab Sample ID: 880-31967-39****Date Collected: 08/11/23 10:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 20:17	SMC	EET MID

Client Sample ID: S-9-5'**Lab Sample ID: 880-31967-40****Date Collected: 08/11/23 10:38****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 16:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 20:27	SMC	EET MID

Client Sample ID: S-10-1'**Lab Sample ID: 880-31967-41****Date Collected: 08/11/23 11:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 06:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 21:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	60062	08/13/23 12:30	SMC	EET MID

Client Sample ID: S-10-2'**Lab Sample ID: 880-31967-42****Date Collected: 08/11/23 11:10****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 06:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 12:40	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-4'
Date Collected: 08/11/23 11:21
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 07:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 12:51	SMC	EET MID

Client Sample ID: S-10-5'
Date Collected: 08/11/23 11:29
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-44
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	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 07:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 13:01	SMC	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: SRO SWD #104

Job ID: 880-31967-1
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

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

Method Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
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: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31967-1	S-11-1'	Solid	08/10/23 10:00	08/11/23 14:12
880-31967-2	S-11-2'	Solid	08/10/23 10:10	08/11/23 14:12
880-31967-3	S-11-4'	Solid	08/10/23 10:20	08/11/23 14:12
880-31967-4	S-11-5'	Solid	08/10/23 10:30	08/11/23 14:12
880-31967-5	S-4-1'	Solid	08/10/23 11:00	08/11/23 14:12
880-31967-6	S-4-2'	Solid	08/10/23 11:08	08/11/23 14:12
880-31967-7	S-4-4'	Solid	08/10/23 11:15	08/11/23 14:12
880-31967-8	S-4-5'	Solid	08/10/23 11:25	08/11/23 14:12
880-31967-9	S-5-1'	Solid	08/10/23 11:40	08/11/23 14:12
880-31967-10	S-5-2'	Solid	08/10/23 11:48	08/11/23 14:12
880-31967-11	S-5-4'	Solid	08/10/23 11:53	08/11/23 14:12
880-31967-12	S-5-5'	Solid	08/10/23 12:00	08/11/23 14:12
880-31967-13	S-6-1'	Solid	08/10/23 12:55	08/11/23 14:12
880-31967-14	S-6-2'	Solid	08/10/23 13:08	08/11/23 14:12
880-31967-15	S-6-4'	Solid	08/10/23 13:15	08/11/23 14:12
880-31967-16	S-6-5'	Solid	08/10/23 13:20	08/11/23 14:12
880-31967-17	S-1-1'	Solid	08/10/23 13:35	08/11/23 14:12
880-31967-18	S-1-2'	Solid	08/10/23 13:40	08/11/23 14:12
880-31967-19	S-1-4'	Solid	08/10/23 13:50	08/11/23 14:12
880-31967-20	S-1-5'	Solid	08/10/23 14:00	08/11/23 14:12
880-31967-21	S-2-1'	Solid	08/10/23 14:25	08/11/23 14:12
880-31967-22	S-2-2'	Solid	08/10/23 14:30	08/11/23 14:12
880-31967-23	S-2-4'	Solid	08/10/23 14:40	08/11/23 14:12
880-31967-24	S-2-5'	Solid	08/10/23 14:48	08/11/23 14:12
880-31967-25	S-3-1'	Solid	08/10/23 15:05	08/11/23 14:12
880-31967-26	S-3-2'	Solid	08/10/23 15:20	08/11/23 14:12
880-31967-27	S-3-4'	Solid	08/10/23 15:27	08/11/23 14:12
880-31967-28	S-3-5'	Solid	08/10/23 15:35	08/11/23 14:12
880-31967-29	S-7-1'	Solid	08/10/23 16:00	08/11/23 14:12
880-31967-30	S-7-2'	Solid	08/10/23 16:10	08/11/23 14:12
880-31967-31	S-7-4'	Solid	08/10/23 16:20	08/11/23 14:12
880-31967-32	S-7-5'	Solid	08/10/23 16:27	08/11/23 14:12
880-31967-33	S-8-1'	Solid	08/11/23 08:30	08/11/23 14:12
880-31967-34	S-8-2'	Solid	08/11/23 09:40	08/11/23 14:12
880-31967-35	S-8-4'	Solid	08/11/23 09:48	08/11/23 14:12
880-31967-36	S-8-5'	Solid	08/11/23 10:00	08/11/23 14:12
880-31967-37	S-9-1'	Solid	08/11/23 10:15	08/11/23 14:12
880-31967-38	S-9-2'	Solid	08/11/23 10:21	08/11/23 14:12
880-31967-39	S-9-4'	Solid	08/11/23 10:30	08/11/23 14:12
880-31967-40	S-9-5'	Solid	08/11/23 10:38	08/11/23 14:12
880-31967-41	S-10-1'	Solid	08/11/23 11:00	08/11/23 14:12
880-31967-42	S-10-2'	Solid	08/11/23 11:10	08/11/23 14:12
880-31967-43	S-10-4'	Solid	08/11/23 11:21	08/11/23 14:12
880-31967-44	S-10-5'	Solid	08/11/23 11:29	08/11/23 14:12

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record



880-31967 Chain of Custody

Client Information Client Contact: Justin Nixon Company: ARCADIS US Inc Address: 1004 North Big Spring Suite 300 City: Midland State Zip: TX 79701 Phone: 432-296-9547(Tel) Email: Justin.Nixon@arcadis.com Project Name: SRO SWD #104 Site: Eddy County, NM		Sampler: Justin Nixon Lab PM: Bules John Phone: 432-296-9547 E-Mail: John.Bules@et.eurofinsus.com	Carrier Tracking # State of Origin: NM
Due Date Requested TAT Requested (days): Standard Compliance Project: ☐ Yes ☒ No PO #: 30190846-02 WO #: Project #: 88001850 SSOW#:		Analysis Requested	
Sample Identification S-11-1' S-11-2' S-11-4' S-11-5' S-4-1' S-4-2' S-4-4' S-4-5' S-5-1' S-5-2' S-5-4'		Sample Date 8-10-23	Sample Time 1000
Matrix (W=water, S=solid, O=oil, T=tissue, A=air) Solid		Sample Type (C=Comp, G=grab) G	Preservation Code G
Field Filtered Sample (Yes or No) ☒ Yes ☒ No Perform MS/MSD (Yes or No) ☒ Yes ☒ No 300_ORGM_28D, 8015MOD, NM, 8021B		Total Number of Containers	
Special Instructions/Note		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 Na2SO3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Other: Z other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Special Instructions/QC Requirements			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Method of Shipment:	
Deliverable Requested I II III IV Other (specify)		Date/Time 8-10-23 1420	
Empty Kit Relinquished by		Date/Time 8-10-23 1420	
Relinquished by		Date/Time 8-10-23 1420	
Relinquished by		Date/Time 8-10-23 1420	
Relinquished by		Date/Time 8-10-23 1420	
Custody Seals Intact Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks 6.0/5.0	

Ver: 06/08/2021

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record



Environment Testing

Client Information Client Contact: Justin Nixon Company: ARCADIS US Inc		Sampler: Justin Nixon Phone: 432-296-9547 PWSID:	Lab PM: John Builes E-Mail: John.Builes@eurofins.com	Carrier Tracking No(s): 880-6492-896 2 State of Origin: NM Page 2 of 4 Job #:
Address: 1004 North Big Spring Suite 300 City: Midland State Zip: TX, 79701 Phone: 432-296-9547(Tel) Email: Justin.Nixon@arcadis.com Project Name: SRO SWD #104 Site: Eddy County		Analysis Requested Due Date Requested: Standard TAT Requested (days): Compliance Project: ☐ Yes ☒ No PO #: 30190846-02 WO #: 88001850 Project #: 88001850 SSOW#:		
Sample Identification Sample ID Sample Date Sample Time Sample Type (G=comp, G=grab) Matrix (W=water, S=solid, O=ore/soil, BT=tissue, A=air) Preservation Code	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300. ORGFM_28D, 8015MOD_NM, 8021B	Total Number of Containers Special Instructions/Note		
S-5-5' S-6-1' S-6-2' S-6-4' S-6-5' S-1-1' S-1-2' S-1-4' S-1-5' S-2-1' S-2-2'	8-10-23 1200 1355 1308 1315 1320 1335 1340 1350 1400 1425 1430	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	Preservation Codes A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify)				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months				
Special Instructions/QC Requirements				
Empty Kit Relinquished by Relinquished by: [Signature] Date: 8-16-23 1420 Company: Arcadis		Method of Shipment Received by: [Signature] Date: 8/11/23 Company:		
Relinquished by Relinquished by: [Signature] Date: [Blank] Company:		Received by: [Signature] Date: [Blank] Company:		
Relinquished by Relinquished by: [Signature] Date: [Blank] Company:		Received by: [Signature] Date: [Blank] Company:		
Custody Seals Intact Yes ☐ No ☐		Cooler Temperature(s) °C and Other Remarks		

Ver 06/08/2021

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

eurofins
31907

Eurofins Test Kit

Client Information		Lab PM Bulles John		Carrier Tracking No(s)	
Client Contact Justin Nixon		E-Mail John.Bulles@eurofins.com		State of Origin NM	
Company ARCADIS US Inc		PWSID		Page 3 of 4	
Address 1004 North Big Spring Suite 300		Due Date Requested		Job #	
City Midland		TAT Requested (days)		Analysis Requested	
State Zip TX 79701		Compliance Project: ☐ Yes ☐ No		Preservation Codes:	
Phone 432-296-9547(Tel)		PO # 30190846-02		A HCL B Hexane C NaOH D Zn Acetate E Nitric Acid F NaHSO4 G MeOH H Anchlor I Ice J DI Water K EDTA L EDA Other	
Email Justin.Nixon@arcadis.com		WO #		M None N AsNaO2 O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Project Name SRO SWD #104		Project # 88001850		Total Number of Containers	
Site 1004 North Big Spring		SSOW#		Special Instructions/Note	
Sample Identification		Sample Date		Sample Time	
S-2-4		8-10-23		1440	
S-2-5		8-10-23		1448	
S-3-1		8-10-23		1505	
S-3-2		8-10-23		1520	
S-3-4		8-10-23		1527	
S-3-5		8-10-23		1535	
S-7-1		8-10-23		1600	
S-7-2		8-10-23		1610	
S-7-4		8-10-23		1620	
S-7-5		8-10-23		1627	
S-8-1		8-11-23		1630	
Possible Hazard Identification		Sample Type		Matrix	
☐ Non-Hazard ☐ Flammable		(C=Comp, G=grab)		(W=water, S=solid, O=wastewater, BT=tissue, A=air)	
Deliverable Requested I II III IV Other (specify)		Preservation Code		Solid	
Empty Kit Relinquished by		Date		Time	
Relinquished by		8-11-23		1440	
Relinquished by		8-11-23		1440	
Relinquished by		8-11-23		1440	
Custody Seals Intact ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

Loc: 880
31967

Environment Test rig

Client Information		Lab PM Bulles John		Carrier Tracking No(s)	
Client Contact: Justin Nixon		E-Mail John.Bulles@et.eurofins.com		State of <i>TX</i>	
Company ARCADIS US Inc		PWSID		Job #	
Address 1004 North Big Spring Suite 300		Due Date Requested		Analysis Requested	
City Midland		TAT Requested (days) <i>Standard</i>		Preservation Codes	
State Zip TX 79701		Compliance Project: ☐ Yes ☒ No		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 R Na2SO3 F MeOH S H2SO4 G Amchlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4.5 K EDTA Y Trizma L EDA Z other (specify) Other	
Phone 432-296-9547(Tel)		PO # 30190846-02		Total Number of containers	
Email Justin.Nixon@arcadis.com		WO #		Special Instructions/Note	
Project Name SRO SWD #104		Project # 88001850			
Site <i>Eddy Canty</i>		SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=titus Acid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300-ORGM, 28D, 8015MOD, NM, 8021B	Special Instructions/Note
S-8-2'	8-11-23	940	C	Solid				
S-8-4'		948		Solid				
S-8-5'		1000		Solid				
S-9-1'		1015		Solid				
S-9-2'		1021		Solid				
S-9-4'		1030		Solid				
S-9-5'		1038		Solid				
S-10-1'		1100		Solid				
S-10-2'		1110		Solid				
S-10-4'		1121		Solid				
S-10-5'		1129		Solid				

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Special Instructions/QC Requirements			

Empty Kit Relinquished by		Date		Time	
Relinquished by: <i>[Signature]</i>		Date/Time 8-11-23		Company ARCADIS	
Relinquished by		Date/Time		Company	
Relinquished by		Date/Time		Company	
Custody Seals Intact ☐ Yes ☒ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-31967-1
SDG Number: Eddy County, NM

Login Number: 31967

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

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

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

CONDITIONS

Action 283040

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 283040
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation plan approved.	11/30/2023
amaxwell	Variance granted to sample every 400 square feet.	11/30/2023
amaxwell	Submit a report via the OCD permitting portal by 5/14/2024.	11/30/2023