State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

20 S. St. Francis Dr., Santa Fe, NM 87505 Santa	Fe, NM 87505	side of to				
Release Notificati	on and Corrective A	Action				
	OPERATOR	🛛 Initial Report 🗌 Final Re				
Name of Company COG OPERATING LLC	Contact R	Robert McNeill				
Address 600 West Illinois Avenue, Midland, TX 79701		432-230-0077				
Facility Name Burch Keely Unit #142	Facility Type	Injection Well				
Surface Owner Federal Mineral Owne	21	Lease No. (API#) 30-015-04388				
LOCATI	ON OF RELEASE					
Unit Letter Section Township Range Feet from the No D 30 17S 30E	rth/South Line Feet from the	East/West Line County Eddy				
Latitude 32.81100	8	9				
	E OF RELEASE					
Type of Release Produced water	Volume of Release 20bbls	Volume Recovered 15bbls				
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery					
Steel flowline	05-07-2014 05-07-2014 10:00am					
Was Immediate Notice Given?	ed If YES, To Whom?					
By Whom?	Date and Hour					
Was a Watercourse Reached?	If YES, Volume Impacting	If YES, Volume Impacting the Watercourse.				
Yes 🛛 No						
Describe Cause of Problem and Remedial Action Taken.*						
A steel flowline failed due to corrosion, we replaced the bad section of	steel pipe with a new joint.					
Describe Area Affected and Cleanup Action Taken.*						
Initially 20bbls of produced water were released. We were able to reconvave the spill site sampled to delineate any possible contamination from approval prior to any significant remediation work.						
hereby certify that the information given above is true and complete tregulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notifications and perform corre- the NMOCD marked as "Final R liate contamination that pose a the	ctive actions for releases which may endanger Report" does not relieve the operator of liability reat to ground water, surface water, human health				
	OIL CON	ISERVATION DIVISION				
Signature: Rabert Some						
Printed Name: Robert Grubbs Jr.	Approved by District Supervis	sor:				
Title: Senior Environmental Coordinator	Annroual Data:	Expiration Date:				
	Approval Date:					
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached				
Date: 06-03-2014 Phone: 432-661-6601						
Attach Additional Sheets If Necessary						



COG (ConocoPhillips)

2024 Work Plan

Burch Keely Unit #142 Eddy County, New Mexico Incident # NHMP1415747700

April 2024

2024 Work Plan

Burch Keely Unit #142 Incident # NHMP1415747700

Eddy County, New Mexico

April 2024

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

Our Ref: 30197423

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Justin Nixon Task Manager

~1

Scott Foord, PG Certified Project Manager

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- Appendix A. Initial C-141 Form Incident # NHMP1415747700
- Appendix B. Site Characterization Data
- Appendix C. Laboratory Analytical Reports
- Appendix D. NMOCD Correspondence

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 Burch Keely Unit #142 (Site) located at 32.81100, -104.01749. 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 federal land approximately 2.5-miles southwest of the City of Maljimar in Unit D, Section 30, Township 17 South, Range 30 East, Eddy County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NHMP1415747700

According to the Initial C-141 Form, on May 7, 2014 a steel flowline failed due to corrosion, which was replaced with a new steel joint, resulting in the release of approximately 20 barrels (bbls) of produced water to ground surface at the Site with 15 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on June 3, 2014 and assigned Incident ID number NHMP1415747700. 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. A water well was located approximately 1.87 miles northeast of the site with a depth to water of 80 feet bgs. As such, assessment activities completed to date and proposed remediation/reclamation activities at the Site have been evaluated assuming a Site with a depth to groundwater as less than 50 feet below ground surface (bgs). The following site characteristics were determined in accordance with 19.15.29 New Mexico Administrative Code (NMAC):

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

- A continuously flowing watercourse or any other significant watercourse: >5 miles
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark): >5 miles
- An occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 miles
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: >5 miles
- Any other fresh water well or spring: >5 miles
- Incorporated municipal boundaries or a defined municipal fresh water well field: >5 miles
- A wetland: >5 miles
- A subsurface mine: >5 miles
- A (non-karst) unstable area: >5 miles
- Categorize the risk of this well/site being in Karst Geology: Low

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- A 100-year floodplain: Between 1 and 5 miles
- Did the release impact areas not on an exploration, development, production, or storage site? No

The site characterization data is presented in Appendix B.

4 NMAC Regulatory Criteria

The NMOCD classifies the Site to use the most stringent regulatory limits due to depth to groundwater being assumed less than 50 feet bgs and no documented water wells within ½ mile of the site. Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for both reclamation and remediation activities:

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

5 Site Assessment Activities

In October and December 2023, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of nine (9) sample points (S-1 through S-9) were advanced to depths ranging from the surface to 4 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. Soil samples analyzed for TPH were reported with concentrations ranging from 15.4 mg/kg (S-3) to 84.4 mg/kg (S-9). Soil samples analyzed for BTEX were reported with concentrations ranging from 0.000100 mg/kg (S-8) to 0.000102 mg/kg (S-9). Soil samples analyzed for chloride were reported with concentrations ranging from 11.5 mg/kg (S-9) to 2,200 mg/kg (S-2).

Horizontal and vertical delineation was assessed in each cardinal direction to determine the potential area of concern. Arcadis will use this data and field screening to guide proposed remediation activities prior to collecting any confirmation laboratory analytical samples. Soil sample analytical results from assessment activities are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix C.** NMOCD correspondence is shown in **Appendix D**.

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 of concern via excavation illustrated in orange as shown in **Figure 3** and bolded in **Table 1**.

The proposed excavation area encompasses a surface area of approximately 1,400 square feet. An estimated 220 cubic yards of soil will be removed and transported to the R360 Halfway CRI Facility, which is listed as an NMOCD approved disposal facility.

In accordance with NMAC 19.15.29.12(D)(1)(b) COG proposes the following confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 square foot intervals for analysis of chloride by EPA Method 300.0, BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral and vertical limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c).

Backfill material will be verified to be non-waste containing prior to backfilling the remediated area by obtaining analytical data from the backfill material supplier (R360) if available, or by collecting a five-point composite sample and analyzing for chloride by EPA Method 300.0, BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Following completion of excavation activities and confirmation that the backfill material is non-waste containing, the areas will be backfilled with the clean material and graded to match the original surface conditions and drainage. Approximately 700 square feet of the area of concern located within the pasture area will be reclaimed to original condition and re-seeded following remediation activities. The remaining 700 square feet of the area of concern will be reclaimed but not reseeded. This area will be restored as a lease road.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to 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 and a separate reclamation report will be submitted to the NMOCD for review. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Justin Nixon at 432-296-9547.

Tables

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Table 1 2024 Soil Sample Analytical Results Burch Keely Unit #142 COG (ConocoPhillips)

					BTEX Methods				TPH Met	hods		CI Method
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m-Xylene & p-Xylene (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
S1-1-101123	10/11/2023	1	<0.000383	<0.000454	<0.000563	<0.00101	< 0.00101	18.7J	15.3J	<15.1	34.0J	76.1
S1-2-101123	10/11/2023	2	< 0.000381	< 0.000451	<0.000559	<0.00100	< 0.00100	16.7J	<14.9	<14.9	16.7J	105
S1-3-101123	10/11/2023	3	< 0.000388	< 0.000460	<0.000570	<0.00102	< 0.00102	29.4J	18.5J	<15.0	47.9J	108
S2-1-101123	10/11/2023	1	< 0.000387	< 0.000459	<0.000568	<0.00102	< 0.00102	26.2J	18.5J	<15.2	44.7J	769
S2-2-101023	10/10/2023	2	< 0.000386	< 0.000457	<0.000566	<0.00101	< 0.00101	18.5J	<14.9	<14.9	18.5J	2200
S3-1-101023	10/10/2023	1	< 0.000384	< 0.000455	<0.000564	<0.00101	< 0.00101	21.5J	29.7J	<15.0	51.2	109
S3-2-101123	10/11/2023	2	< 0.000383	< 0.000453	<0.000562	<0.00100	< 0.00100	15.4J	<15.1	<15.1	15.4J	202
S4-1-101123	10/11/2023	1	< 0.000381	< 0.000451	<0.000559	<0.00100	< 0.00100	<14.9	17.6J F1	<14.9	17.6J	104
S4-2-101123	10/11/2023	2	< 0.000389	< 0.000461	<0.000571	<0.00102	< 0.00102	16.7J	26.2J	<15.0	42.9J	114
S5-1-101123	10/11/2023	1	< 0.000383	< 0.000454	<0.000563	<0.00101	< 0.00101	46.5J	22.4J	<14.9	68.9	385
S5-2-101123	10/11/2023	2	< 0.000388	< 0.000460	<0.000570	<0.00102	< 0.00102	25.0J	22.8J	<15.0	47.8J	305
S6-1-101023	10/10/2023	1	< 0.000383	< 0.000453	<0.000562	<0.00100	< 0.00100	21.0J	16.3J	<15.1	37.3J	203
S6-2-101023	10/10/2023	2	< 0.000381	0.000479J	<0.000559	<0.00100	< 0.00100	24.8J	20.0J	<15.2	44.8J	466F1
S7-1-101123	10/11/2023	1	< 0.000389	< 0.000461	<0.000571	<0.00102	< 0.00102	25.4J	<15.0	<15.0	25.4J	88.1
S7-2-101123	10/11/2023	2	< 0.000387	< 0.000459	<0.000568	<0.00102	< 0.00102	18.5J	17.8J	<15.0	36.3J	92.7
S8-1-101123	10/11/2023	1	< 0.000384	< 0.000455	<0.000564	<0.00101	< 0.00101	23.3J	23.3J	<15.0	46.6J	110
S8-2-101123	10/11/2023	2	< 0.000382	< 0.000452	<0.000561	<0.00100	<0.00100	22.8J	16.9J	<14.9	39.7J	116
S8-3-101123	10/11/2023	3	< 0.000383	< 0.000453	<0.000562	<0.00100	< 0.00100	18.7J	<15.0	<15.0	18.7J	87.7
S8-4-101123	10/11/2023	4	< 0.000381	<0.000451	<0.000559	<0.00100	<0.00100	36.8J	19.8J	<15.1	56.6	102
S-9-1-120623	12/6/2023	1	< 0.000388	< 0.000460	<0.000570	<0.00102	< 0.00102	22.8	61.6	<15.2	84.4	11.5
S-9-2-120623	12/6/2023	2	< 0.000384	< 0.000455	<0.000564	<0.00101	<0.00101	25.7 J	34.7 J	<15.0	60.4	135
NMOCD Re	clamation S	tandard	10				50				100	600
NMOCE	Closure Cri	teria	10				50				100	600

Legend:

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

51: MS and/or MSD recovery exceeds control limits Analytes exceeding NMAC Standards are indicated in bold '<' indicates the analyte was not detected at or above the Method Detection Limit (MDL) mg/kg: Milligram per Kilogram BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

TPH ORO: Total Petroluem Hydrocarbons Oil Range Organics

S : Soil sample

Notes:

1. Chloride analyzed by EPA Method 300

2. TPH analyzed by EPA Method 8015 M

3. BTEX analyzed by EPA Method 8260B

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

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Figures

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Photographic Logs

	DIS	I	PHOTOGRAPHIC LOG
Property Name:	Location:		Case No.
Burch Keely Unit #142	Eddy Count	y, NM	NHMP1415747700
Photo No. Date: 1 10/11/2023			
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Description:			
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32.811093, -104.017062			
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PHOTOGRAPHIC LOG

Property Na	me:	Location:	Case No.
Burch Keely	Unit #142	Eddy County, NM	NHMP1415747700
Photo No. 2	Date: 10/11/2023		t and the second s
Direction Pr E	noto Taken:		
Description: Sample locat			
32.811011, -	104.017333		

ARC/	DIS	PHOTOGRAPHIC LOG
Property Name:	Location:	Case No.
Burch Keely Unit #142	Eddy County, NM	NHMP1415747700
Photo No.Date:310/11/2023Direction Photo Taken:N		
Description: Sample location S-2		
32.811060, -104.016992		



Initial C-141 Form Incident # NHMP1415747700

Nr. Franch Dr., Habs, NM 88210 Energy Minerals and Natural Resources W. Ganda Avenae, Ancia, NM 88210 Coll Conservation Division No. Bank Dr., Maks, NM 88210 Coll Conservation Division No. Bank Dr., Maks, NM 88210 Coll Conservation Division No. Bank Dr., Maks, NM 87305 Coll Conservation Division St. Francis, Dr., Sama Fe, NM 87505 Coll Conservation and Corrective Action MMP (HJS 747700 OPERATOR Release Notification and Corrective Action Final Report France Of West Illinois Avenae, Midland, TX 79701 Folgenom 0. 432:230-0077 cility Name Burch Keely Unit #142 Facility Type Infection Township Range Feet from the East/West Line County P 30 Township Range Feet from the East/West Line County Ed flowing 200-017 Usage Usage Eddy Eddy Latitude 32.81100 Longitude 104.01749 Kattere County Eddy Eddy Latitude 32.81100 Longitude 104.01749 Soft County Eddy Eddy If Vest Sink No Sink Resink No Release Volume Recovered Isbels	eived by OCD: 4/29/2024 10:53:35 AM	1			Page 18 a
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	ederal, state, or local laws and/or regulations.	т		CEDVATION D	
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gnature: Robert Grubbs Jr. inted Name: Robert Grubbs Jr. tle: Senior Environmental Coordinator mail Address: rgrubbs@concho.com the: 06-03-2014	Attach Additional Sheets If Necessary				700 7725
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	Initially 20bbls of produced water were release have the spill site sampled to delineate any po- approval prior to any significant remediation v I hereby certify that the information given abo regulations all operators are required to report public health or the environment. The accepta should their operations have failed to adequate	ed. We were able to recover ssible contamination from t vork. ve is true and complete to t and/or file certain release n nce of a C-141 report by th ly investigate and remediat eptance of a C-141 report d	he release and we will present he best of my knowledge and otifications and perform corre e NMOCD marked as "Final F te contamination that pose a th loes not relieve the operator of	a remediation work pl understand that pursua ctive actions for releas Report" does not reliev reat to ground water, s responsibility for con	an to the NMOCD/BLM nt to NMOCD rules and es which may endanger e the operator of liabilit urface water, human he apliance with any other
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Bratcher, Mike, EMNRD

From:	Robert Grubbs <rgrubbs@concho.com></rgrubbs@concho.com>
Sent:	Wednesday, June 04, 2014 8:53 AM
To:	Bratcher, Mike, EMNRD; Jeff Robertson (jlrobertson@blm.gov) (jlrobertson@blm.gov)
Cc:	Robert McNeill; Amanda Trujillo; Guadalupe Carrasco; Production Mail
Subject:	C-141 Initial Report - Burch Keely Unit #142 (IW)
Attachments:	05-07-2014 Burch Keely Unit #142 (IW) Initial.pdf

Mr. Bratcher,

Please see attached the C-141 Initial Report for a release that occurred at our Burch Keely Unit #142 (IW) on 05-07-2014 in Eddy County New Mexico. We plan to assess the spill area timely.

Thank you,

Robert Grubbs Jr. Sr. Environmental Coordinator 432.683.7443 (main) 432.818.2369 (direct) 432.661.6601 (cell) rgrubbs@concho.com Mailing Address: One Concho Center 600 W. Illinois Avenue Midland, Texas 79701

Эсопсно

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Site Characterization Data





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New Mexico Office of the State Engineer Point of Diversion Summary

					VE 3=SW o largest)		(NAD83 U	TM in meter
Well Tag PC	D Number	Q64 Q					X	-
RA	11914 POD1	2	4 2	20	17S	30E	594801	363200
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Driller Name:	JOHN NORRIS							
Drill Start Date	e: 03/19/2013	Drill Fin	ish Da	te:	03	3/19/201	13 Pl	ug Date:
Log File Date:	04/09/2013	PCW Re	v Date	:			So	urce:
Pump Type:		Pipe Dise	charge	Size:	:		Es	timated Y
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Wa	ater Bearing Stratific	ations:	To	op I	Bottom	Desci	ription	
			i	11	85	Sands	stone/Grave	l/Conglon

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



Page 22 of 105

POINT OF DIVERSION SUMMARY

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Page 24 of 105

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FEMA's National Flood Hazard Layer (NFHL) Viewer

with Web AppBuilder for ArcGIS



Limit of Moderate Wave Action

- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- 🌠 Area with Reduced Risk Due to Levee



Laboratory Analytical Reports

Received by OCD: 4/29/2024 10:53:35 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon ARCADIS US Inc 1004 North Big Spring Suite 300 Midland, Texas 79701 Generated 10/18/2023 1:04:31 PM

JOB DESCRIPTION

Burch Keeley #142 SDG NUMBER Lea County, NM

JOB NUMBER

880-34338-1

l Ave)1

See page two for job notes and contact information

5 6

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

Laboratory Job ID: 880-34338-1 SDG: Lea County, NM

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Job ID: 880-34338-1

Page 31 of 105

SDG: Lea County, NM

Qualifiers

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
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.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	
В	Compound was found in the blank and sample.	8
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.	Q
S1+	Surrogate recovery exceeds control limits, high biased.	3
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.	13
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	

CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-34338-1 SDG: Lea County, NM

Glossary	(Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.							
TNTC	Too Numerous To Count							

Eurofins Midland

Job ID: 880-34338-1 SDG: Lea County, NM

Job ID: 880-34338-1

Client: ARCADIS US Inc

Laboratory: Eurofins Midland

Project/Site: Burch Keeley #142

Narrative

Job Narrative 880-34338-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.



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

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

Receipt

The samples were received on 10/12/2023 8:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S1-1-101123 (880-34338-1), S1-2-101123 (880-34338-2), S1-3-101123 (880-34338-3), S2-1-101123 (880-34338-4), S2-2-101023 (880-34338-5), S3-1-101023 (880-34338-6), S3-2-101123 (880-34338-7), S4-1-101123 (880-34338-8), S4-2-101123 (880-34338-9), S5-1-101123 (880-34338-10), S5-2-101123 (880-34338-11), S6-1-101023 (880-34338-12), S6-2-101023 (880-34338-13), S7-1-101123 (880-34338-14), S7-2-101123 (880-34338-15), S8-1-101123 (880-34338-16), S8-2-101123 (880-34338-17), S8-3-101123 (880-34338-18) and S8-4-101123 (880-34338-19).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-64563 and analytical batch 880-64524 was outside the upper control limits.

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 880-64532 and 880-64562 and analytical batch 880-64515 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64515/5), (LCS 880-64532/2-A), (LCS 880-64562/2-A) and (LCSD 880-64562/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S1-1-101123 (880-34338-1), S1-2-101123 (880-34338-2), S1-3-101123 (880-34338-3), S2-1-101123 (880-34338-4), S2-2-101023 (880-34338-5), S3-1-101023 (880-34338-6), S3-2-101123 (880-34338-7), (890-5445-A-8-C), (890-5445-A-8-D MS) and (890-5445-A-8-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64515 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to being inadvertently double spiked. Percent recoveries are based on the amount spiked. The associated samples are impacted: (CCV 880-64515/20), (CCV 880-64515/31), (CCV 880-64515/47) and (CCV 880-64515/58).

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample duplicate (LCSD) associated with preparation batch 880-64562 and analytical batch 880-64515. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Job ID: 880-34338-1 SDG: Lea County, NM

Job ID: 880-34338-1 (Continued)

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64629 and analytical batch 880-64616 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S4-1-101123 (880-34338-8), S4-2-101123 (880-34338-9), S5-1-101123 (880-34338-10), S5-2-101123 (880-34338-11), S6-1-101023 (880-34338-12), S6-2-101023 (880-34338-13), S7-1-101123 (880-34338-14), S7-2-101123 (880-34338-15), S8-1-101123 (880-34338-16), S8-2-101123 (880-34338-17), (880-34338-A-8-D MS) and (880-34338-A-8-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S8-3-101123 (880-34338-18) and S8-4-101123 (880-34338-19). 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 880-64616/21), (CCV 880-64616/32) and (CCV 880-64616/8). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-64629 and analytical batch 880-64616 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-64629 and analytical batch 880-64616 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-64629 and analytical batch 880-64616 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64571 and analytical batch 880-64698 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S1-1-101123 Date Collected: 10/11/23 09:10

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		10/12/23 13:30	10/13/23 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				10/12/23 13:30	10/13/23 00:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130				10/12/23 13:30	10/13/23 00:08	1
Method: TAL SOP Total BTEX - To									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			10/13/23 00:08	1
Method: SW846 8015 NM - Diesel			-						
Analyte Total TPH	Result 34.0	Qualifier		MDL 15.1	Unit mg/Kg	D	Prepared	Analyzed 10/12/23 19:01	Dil Fac
Method: SW846 8015B NM - Diese Analyte		nics (DRO) Qualifier	(<mark>GC)</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result 18.7		RL 50.3	MDL 15.1	Unit mg/Kg	D	Prepared 10/12/23 10:42	Analyzed 10/12/23 19:01	Dil Fac
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	15.3	J	50.3	15.1	mg/Kg		10/12/23 10:42	10/12/23 19:01	1
Oll Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		10/12/23 10:42	10/12/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				10/12/23 10:42	10/12/23 19:01	1
o-Terphenyl	138	S1+	70 - 130				10/12/23 10:42	10/12/23 19:01	1
Method: EPA 300.0 - Anions, Ion (Chromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.1		5.04	0.398	mg/Kg			10/17/23 15:30	1
lient Sample ID: S1-2-10112	3						Lab Sam	ple ID: 880-3	4338-2
ate Collected: 10/11/23 09:20 ate Received: 10/12/23 08:58								Matri	x: Solid
Method: SW846 8021B - Volatile C	Irganic Comp	ounde (GC)							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				10/12/23 13:30	10/13/23 00:28	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/12/23 13:30	10/13/23 00:28	1

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Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-1

Matrix: Solid

5

Matrix: Solid

5

Client Sample Results

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-2

Client Sample ID: S1-2-101123 Date Collected: 10/11/23 09:20

Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			10/13/23 00:28	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.7	J	49.5	14.9	mg/Kg			10/13/23 00:09	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	16.7	J *1	49.5	14.9	mg/Kg		10/12/23 13:28	10/13/23 00:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<14.9	U *- *1	49.5	14.9	mg/Kg		10/12/23 13:28	10/13/23 00:09	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		10/12/23 13:28	10/13/23 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				10/12/23 13:28	10/13/23 00:09	1
o-Terphenyl	151	S1+	70 - 130				10/12/23 13:28	10/13/23 00:09	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.03	0.397	mg/Kg			10/17/23 15:36	1

Client Sample ID: S1-3-101123

Date Collected: 10/11/23 09:30

Lab Sample ID: 880-34338-3 Matrix: Solid

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		10/12/23 13:30	10/13/23 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/12/23 13:30	10/13/23 00:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/12/23 13:30	10/13/23 00:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			10/13/23 00:49	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.9	J	50.1	15.0	mg/Kg			10/13/23 00:31	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	29.4	J *1	50.1	15.0	mg/Kg		10/12/23 13:28	10/13/23 00:31	1
(GRO)-C6-C10									

Eurofins Midland

C10-C28)
Matrix: Solid

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Dil Eac

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-3

10/12/23 13:30 10/13/23 01:09

Client Sample ID: S1-3-101123

Date Collected: 10/11/23 09:30 Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		10/12/23 13:28	10/13/23 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				10/12/23 13:28	10/13/23 00:31	1
o-Terphenyl	153	S1+	70 - 130				10/12/23 13:28	10/13/23 00:31	1
Method: EPA 300.0 - Anions, Io	n Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.98	0.393	mg/Kg			10/17/23 15:41	1
ate Collected: 10/11/23 10:00	123						Lab Sam	ple ID: 880-3 Matri	
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58		ounds (GC)					Lab Sam	•	
oate Collected: 10/11/23 10:00	e Organic Comp	ounds (GC) Qualifier	RL	MDL	Unit	D	Lab Sam	•	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile	e Organic Comp	Qualifier		MDL 0.000387	Unit mg/Kg	<u>D</u>		Matri	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte	e Organic Comp	Qualifier	RL		mg/Kg	<u>D</u>	Prepared	Matri	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte Benzene	e Organic Comp Result 	Qualifier U U	RL 0.00201	0.000387	mg/Kg mg/Kg	<u>D</u>	Prepared 10/12/23 13:30	Matri Analyzed 10/13/23 01:09	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene	e Organic Comp <u>Result</u> <0.000387 <0.000459	Qualifier U U U	RL 0.00201 0.00201	0.000387 0.000459	mg/Kg mg/Kg	<u>D</u>	Prepared 10/12/23 13:30 10/12/23 13:30	Matri Analyzed 10/13/23 01:09 10/13/23 01:09	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	e Organic Comp Result <0.000387 <0.000459 <0.000568	Qualifier U U U U U	RL 0.00201 0.00201 0.00201	0.000387 0.000459 0.000568	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30	Matri Analyzed 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09	x: Solic
Analyte Benzene Toluene	e Organic Comp Result <0.000387 <0.000459 <0.000568 <0.00102	Qualifier U U U U U U	RL 0.00201 0.00201 0.00201 0.00402	0.000387 0.000459 0.000568 0.00102	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30	Matri Analyzed 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09	x: Solid
Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	e Organic Comp Result <0.000387 <0.000459 <0.000568 <0.00102 <0.000346	Qualifier U U U U U U U	RL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	0.000387 0.000459 0.000568 0.00102 0.000346	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30 10/12/23 13:30	Matri Analyzed 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09 10/13/23 01:09	4338-4 x: Solid Dil Fac 1 1 1 1 1 Dil Fac

1,4-Difluorobenzene	(Surr)

Method: TAL SOP Total BTEX - Total BTEX Calculation	Method: TAL SO	P Total BTEX	- Total BTEX	Calculation
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			10/13/23 01:09	1

70 - 130

	Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (G	iC)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	44.7	J	50.5	15.2	mg/Kg			10/13/23 00:53	1

MDI Unit

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Dronarod

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL

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Analyte	Result	Quaimer	RL	MDL	Unit	U	Prepared	Analyzed	DIFac
Gasoline Range Organics	26.2	J *1	50.5	15.2	mg/Kg		10/12/23 13:28	10/13/23 00:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	18.5	J *- *1	50.5	15.2	mg/Kg		10/12/23 13:28	10/13/23 00:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		10/12/23 13:28	10/13/23 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				10/12/23 13:28	10/13/23 00:53	1
o-Terphenyl	145	S1+	70 - 130				10/12/23 13:28	10/13/23 00:53	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubi	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	769		4.98	0 393	mg/Kg			10/17/23 15:58	1
Chionae	/09		4.90	0.595	mg/itg			10/11/23 13.30	

Analyzod

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S2-2-101023 Date Collected: 10/10/23 10:10

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
o-Xylene	0.000847	J	0.00200	0.000345	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		10/12/23 13:30	10/13/23 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				10/12/23 13:30	10/13/23 01:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/12/23 13:30	10/13/23 01:30	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			10/13/23 01:30	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.5	J	49.6	14.9	mg/Kg			10/13/23 01:37	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.5	J *1	49.6	14.9	mg/Kg		10/12/23 13:28	10/13/23 01:37	1
Diesel Range Organics (Over C10-C28)	<14.9	U *- *1	49.6	14.9	mg/Kg		10/12/23 13:28	10/13/23 01:37	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		10/12/23 13:28	10/13/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				10/12/23 13:28	10/13/23 01:37	1
o-Terphenyl	156	S1+	70 - 130				10/12/23 13:28	10/13/23 01:37	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		25.0	1.98	mg/Kg			10/17/23 16:04	5
lient Sample ID: S3-1-1010	23						Lab Sam	ple ID: 880-3	4338- <mark>6</mark>
· · · · · · · · · · · · · · · · · · ·								Matri	x: Solid
ate Collected: 10/10/23 15:10									
ate Received: 10/12/23 08:58 Method: SW846 8021B - Volatile	• •								
ate Received: 10/12/23 08:58 Method: SW846 8021B - Volatile	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ate Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte	• •			MDL 0.000384	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/13/23 01:50	Dil Fac
ate Collected: 10/10/23 15:10 ate Received: 10/12/23 08:58 Method: SW846 8021B - Volatile Analyte Benzene Toluene	Result	Qualifier	RL		mg/Kg	<u>D</u>	<u> </u>		-

m-Xylene & p-Xylene o-Xylene	<0.00101 <0.000343	U	0.00399 0.00200	0.00101 0.000343	mg/Kg	10/12/23 13:30 10/12/23 13:30	10/13/23 01:50 10/13/23 01:50	1 1
Xylenes, Total	<0.00101		0.00399	0.00101	mg/Kg	10/12/23 13:30	10/13/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

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Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-5

Matrix: Solid

Matrix: Solid

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Client Sample Results

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-6

Client Sample ID: S3-1-101023 Date Collected: 10/10/23 15:10

Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			10/13/23 01:50	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.2		49.9	15.0	mg/Kg			10/13/23 01:59	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	21.5	J *1	49.9	15.0	mg/Kg		10/12/23 13:28	10/13/23 01:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	29.7	J *- *1	49.9	15.0	mg/Kg		10/12/23 13:28	10/13/23 01:59	
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		10/12/23 13:28	10/13/23 01:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				10/12/23 13:28	10/13/23 01:59	1
o-Terphenyl	138	S1+	70 - 130				10/12/23 13:28	10/13/23 01:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.96	0.392	mg/Kg			10/17/23 16:21	1

Client Sample ID: S3-2-101123

Date Collected: 10/11/23 15:20 Date Received: 10/12/23 08:58

Lab Sample ID: 880-34338-7 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/12/23 13:30	10/13/23 02:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/12/23 13:30	10/13/23 02:10	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			10/13/23 02:10

Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GO	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.4	J	50.3	15.1	mg/Kg			10/13/23 02:21	1
Mothod: SW/846 8045P NM Dia	aal Banga Orga								
Welliou. 30040 0013D NW - Die	sel Range Orga	INICS (DRU) ((56)						
Method: SW846 8015B NM - Die Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result				Unit mg/Kg	<u>D</u>	Prepared 10/12/23 13:28	Analyzed 10/13/23 02:21	Dil Fac
Analyte	Result	Qualifier	RL	15.1		<u>D</u>			Dil Fac

Eurofins Midland

Dil Fac

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-7

Client Sample ID: S3-2-101123

Date Collected: 10/11/23 15:20 Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		10/12/23 13:28	10/13/23 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				10/12/23 13:28	10/13/23 02:21	1
o-Terphenyl	156	S1+	70 - 130				10/12/23 13:28	10/13/23 02:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.99	0.394	mg/Kg			10/17/23 16:27	1

Date Collected: 10/11/23 10:50

Date Received: 10/12/23 08:58

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				10/12/23 13:30	10/13/23 02:31	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/12/23 13:30	10/13/23 02:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg				10/13/23 02:31	1

Method: SW846 8015 NM - Diesel R	ange Organ	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.6	J	49.8	14.9	mg/Kg			10/13/23 17:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed <14.9 U *1 Gasoline Range Organics 49.8 14.9 mg/Kg 10/13/23 08:50 10/13/23 17:57 1 (GRO)-C6-C10 49.8 10/13/23 08:50 10/13/23 17:57 **Diesel Range Organics (Over** 17.6 J F1 B *1 14.9 mg/Kg 1 C10-C28) Oll Range Organics (Over C28-C36) <14.9 U 49.8 14.9 mg/Kg 10/13/23 08:50 10/13/23 17:57 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 143 S1+ 70 - 130 10/13/23 08:50 10/13/23 17:57 1 134 S1+ o-Terphenyl 70 - 130 10/13/23 08:50 10/13/23 17:57 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride 104 5.04 0.398 mg/Kg 1

-	10/17/23 16:32	

Eurofins Midland

Matrix: Solid

Matrix: Solid

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Page 13 of 48

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S4-2-101123 Date Collected: 10/11/23 11:00

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		10/12/23 13:30	10/13/23 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/12/23 13:30	10/13/23 02:51	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/12/23 13:30	10/13/23 02:51	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			10/13/23 02:51	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO)	(GC)						
						_	. .	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DIFAC
	Result 42.9		RL 49.9		Unit mg/Kg	D	Prepared	10/13/23 19:00	1
Analyte Total TPH Method: SW846 8015B NM - Dies	42.9 el Range Orga	J nics (DRO	49.9	15.0	mg/Kg			10/13/23 19:00	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	42.9 el Range Orga Result	J nics (DRO Qualifier	49.9) (GC) RL	15.0 MDL	mg/Kg Unit	D	Prepared	10/13/23 19:00 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	42.9 el Range Orga	J nics (DRO	49.9	15.0	mg/Kg Unit			10/13/23 19:00	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	42.9 el Range Orga Result 16.7	J nics (DRO Qualifier	49.9) (GC) RL	15.0 MDL	mg/Kg Unit mg/Kg		Prepared	10/13/23 19:00 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	42.9 el Range Orga Result 16.7	J nics (DRO Qualifier J *1 J B *1	49.9) (GC) RL 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50	10/13/23 19:00 Analyzed 10/13/23 19:00	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	42.9 el Range Orga Result 16.7 26.2	J nics (DRO Qualifier J *1 J B *1 U	49.9 (GC) RL 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50	Analyzed 10/13/23 19:00 40/13/23 19:00 10/13/23 19:00	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	42.9 el Range Orga Result 16.7 26.2 <15.0	J nics (DRO Qualifier J *1 J B *1 U Qualifier	49.9 (GC) <u>RL</u> 49.9 49.9 49.9	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50	Analyzed 10/13/23 19:00 40/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	42.9 el Range Orga Result 16.7 26.2 <15.0 %Recovery	J nics (DRO Qualifier J *1 J B *1 U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 49.9 Limits	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared	Analyzed 10/13/23 19:00 Analyzed 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	42.9 el Range Orga Result 16.7 26.2 <15.0 %Recovery 146 130	J nics (DRO Qualifier J *1 J B *1 U Qualifier S1+	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50	Analyzed 10/13/23 19:00 Analyzed 10/13/23 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00	1 Dil Fac 1 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	42.9 el Range Orga Result 16.7 26.2 <15.0 %Recovery 146 130 Chromatograp	J nics (DRO Qualifier J *1 J B *1 U Qualifier S1+	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50	Analyzed 10/13/23 19:00 Analyzed 10/13/23 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00	1 Dil Fac 1 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	42.9 el Range Orga Result 16.7 26.2 <15.0 %Recovery 146 130 Chromatograp	J nics (DRO Qualifier J *1 J B *1 U Qualifier S1+ Shy - Solub	49.9 (GC) RL 49.9 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 10	15.0 MDL 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg Unit	D	Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50 10/13/23 08:50	10/13/23 19:00 Analyzed 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	42.9 el Range Orga Result 16.7 26.2 <15.0 %Recovery 146 130 Chromatograp Result 114	J nics (DRO Qualifier J *1 J B *1 U Qualifier S1+ Shy - Solub	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 10 10 10 10 10 10 10 10 10 1	15.0 MDL 15.0 15.0 15.0	mg/Kg Unit mg/Kg mg/Kg Mg/Kg Unit	D	Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50 10/13/23 08:50 Prepared	10/13/23 19:00 Analyzed 10/13/23 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 10/13/23 19:00 Analyzed 10/13/23 10/13/23 19:00 Analyzed 10/13/23	1 Dil Fac 1 1 1 <i>Dil Fac</i> 1 <i>Dil Fac</i> 1

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		10/12/23 13:30	10/13/23 03:12	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		10/12/23 13:30	10/13/23 03:12	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		10/12/23 13:30	10/13/23 03:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		10/12/23 13:30	10/13/23 03:12	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		10/12/23 13:30	10/13/23 03:12	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		10/12/23 13:30	10/13/23 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/12/23 13:30	10/13/23 03:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130				10/12/23 13:30	10/13/23 03:12	1

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Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-9

Matrix: Solid

Matrix: Solid

5

Client Sample Results

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-10

Client Sample ID: S5-1-101123 Date Collected: 10/11/23 11:50

Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			10/13/23 03:12	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.9		49.6	14.9	mg/Kg			10/13/23 19:21	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.5	J *1	49.6	14.9	mg/Kg		10/13/23 08:50	10/13/23 19:21	1
Diesel Range Organics (Over C10-C28)	22.4	J B *1	49.6	14.9	mg/Kg		10/13/23 08:50	10/13/23 19:21	1
Oll Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		10/13/23 08:50	10/13/23 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130				10/13/23 08:50	10/13/23 19:21	1
o-Terphenyl	156	S1+	70 - 130				10/13/23 08:50	10/13/23 19:21	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hv - Solubi	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		5.00	0.395	mg/Kg			10/13/23 19:02	1

Client Sample ID: S5-2-101123

Date Collected: 10/11/23 12:00 Date Received: 10/12/23 08:58

Lab Sample ID: 880-34338-11 Matrix: Solid

Analyzed

Prepared

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		10/12/23 13:30	10/13/23 05:02	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		10/12/23 13:30	10/13/23 05:02	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		10/12/23 13:30	10/13/23 05:02	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		10/12/23 13:30	10/13/23 05:02	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		10/12/23 13:30	10/13/23 05:02	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		10/12/23 13:30	10/13/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/12/23 13:30	10/13/23 05:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/12/23 13:30	10/13/23 05:02	1

Method: TAL SOP T	otal BTEX - Total BTEX Calculation					
Analyte	Result Qualifier	RL	MDL	Unit	D	

Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			10/13/23 05:02	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.8	J	50.2	15.0	mg/Kg			10/13/23 19:43	1
Method: SW846 8015B NM - Dies	• •		• •			_			
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	• •	Qualifier	(GC) 	MDL 15.0	Unit mg/Kg	<u>D</u>	Prepared 10/13/23 08:50	Analyzed	Dil Fac

Eurofins Midland

Dil Fac

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-11

Client Sample ID: S5-2-101123

Date Collected: 10/11/23 12:00 Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		10/13/23 08:50	10/13/23 19:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				10/13/23 08:50	10/13/23 19:43	1
o-Terphenyl	132	S1+	70 - 130				10/13/23 08:50	10/13/23 19:43	1
Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp			MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e		Unit mg/Kg	D			Dil Fac
Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp Result 305	hy - Solubl	e RL			<u>D</u>	Prepared	Analyzed	1
Method: EPA 300.0 - Anions, Ion Analyte Chloride	Chromatograp Result 305	hy - Solubl	e RL			<u>D</u>	Prepared	Analyzed 10/13/23 19:07 le ID: 880-34	Dil Fac 1 338-12 x: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/12/23 13:30	10/13/23 05:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/12/23 13:30	10/13/23 05:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	 כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			10/13/23 05:22	1

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GO	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.3	J	50.5	15.1	mg/Kg			10/13/23 20:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	21.0	J *1	50.5	15.1	mg/Kg		10/13/23 08:50	10/13/23 20:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	16.3	J B *1	50.5	15.1	mg/Kg		10/13/23 08:50	10/13/23 20:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		10/13/23 08:50	10/13/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				10/13/23 08:50	10/13/23 20:03	1
o-Terphenyl	139	S1+	70 - 130				10/13/23 08:50	10/13/23 20:03	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		5.00	0.395	mg/Kg			10/13/23 19:12	1

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Matrix: Solid

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S6-2-101023 Date Collected: 10/10/23 16:00

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
Toluene	0.000479	J	0.00198	0.000451	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/12/23 13:30	10/13/23 05:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/12/23 13:30	10/13/23 05:43	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			10/13/23 05:43	1
Method: SW846 8015 NM - Diese									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	44.8	J	50.5	15.2	mg/Kg			10/13/23 20:24	1
Method: SW846 8015B NM - Dies									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.8	J *1	50.5	15.2	mg/Kg		10/13/23 08:50	10/13/23 20:24	1
Diesel Range Organics (Over C10-C28)	20.0	J B *1	50.5	15.2	mg/Kg		10/13/23 08:50	10/13/23 20:24	1
Oll Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		10/13/23 08:50	10/13/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				10/13/23 08:50	10/13/23 20:24	1
o-Terphenyl	146	S1+	70 - 130				10/13/23 08:50	10/13/23 20:24	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466	F1	5.00	0.395	mg/Kg			10/13/23 19:17	1
lient Sample ID: S7-1-10112	23						Lab Samp	le ID: 880-34	338-14
ate Collected: 10/11/23 12:40 ate Received: 10/12/23 08:58								Matri	x: Solid
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyto		Ounds (GC)) DI	MDI	Unit		Propared	Analyzod	

ne organic comp								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.000389	U	0.00202	0.000389	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
<0.000461	U	0.00202	0.000461	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
<0.000571	U	0.00202	0.000571	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
<0.00102	U	0.00404	0.00102	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
0.000394	J	0.00202	0.000347	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
<0.00102	U	0.00404	0.00102	mg/Kg		10/12/23 13:30	10/13/23 06:03	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
112		70 - 130				10/12/23 13:30	10/13/23 06:03	1
103		70 - 130				10/12/23 13:30	10/13/23 06:03	1
	<0.000389 <0.000461 <0.000571 <0.00102 0.000394 <0.00102 %Recovery 112		<0.000389	<0.000389	<0.000389	<0.000389	<0.000389 U 0.00202 0.000389 mg/Kg 10/12/23 13:30 <0.000461	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-13

Matrix: Solid

Matrix: Solid

5

Client Sample Results

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-14

Client Sample ID: S7-1-101123 Date Collected: 10/11/23 12:40

Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			10/13/23 06:03	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.4	J	49.9	15.0	mg/Kg			10/13/23 20:45	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	25.4	J *1	49.9	15.0	mg/Kg		10/13/23 08:50	10/13/23 20:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U *1	49.9	15.0	mg/Kg		10/13/23 08:50	10/13/23 20:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		10/13/23 08:50	10/13/23 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				10/13/23 08:50	10/13/23 20:45	1
o-Terphenyl	150	S1+	70 - 130				10/13/23 08:50	10/13/23 20:45	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.1		4.99	0.394	mg/Kg			10/13/23 19:33	1

Client Sample ID: S7-2-101123

Date Collected: 10/11/23 12:50 Date Received: 10/12/23 08:58

Lab Sample ID: 880-34338-15 Matrix: Solid

Analyzed

10/13/23 06:24

10/13/23 06:24

10/13/23 06:24

10/13/23 06:24

Dil Fac

1

1

1

1

Prepared

10/12/23 13:30

10/12/23 13:30

10/12/23 13:30

10/12/23 13:30

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL MDL Unit D Benzene <0.000387 U 0.00201 0.000387 mg/Kg 0.000459 mg/Kg Toluene <0.000459 U 0.00201 Ethylbenzene <0.000568 U 0.00201 0.000568 mg/Kg m-Xylene & p-Xylene <0.00102 U 0.00102 mg/Kg

o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	10/12/23 13:30	10/13/23 06:24	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	10/12/23 13:30	10/13/23 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 112	Qualifier	Limits 70 - 130			Prepared 10/12/23 13:30	Analyzed 10/13/23 06:24	Dil Fac
		Qualifier						Dil Fac 1 1

Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			10/13/23 06:24	1
- Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (C	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.3	J	50.1	15.0	mg/Kg			10/13/23 21:07	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	18.5	J *1	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 21:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	17.8	J B *1	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 21:07	1

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0.00402

C10-C28)

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-15

Client Sample ID: S7-2-101123

Date Collected: 10/11/23 12:50 Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				10/13/23 08:50	10/13/23 21:07	1
o-Terphenyl T Method: EPA 300.0 - Anions, Ion		_{S1+} hy - Solubl	70 - 130 e				10/13/23 08:50	10/13/23 21:07	
Method: EPA 300.0 - Anions, Ion	Chromatograp			MDL	Unit	D	10/13/23 08:50 Prepared	10/13/23 21:07 Analyzed	Dil Fac
	Chromatograp	hy - Solubl	e		Unit mg/Kg	<u>D</u>			1 Dil Fac
Method: EPA 300.0 - Anions, Ion Analyte Chloride	Chromatograp Result 92.7	hy - Solubl	e			<u> </u>	Prepared	Analyzed	1
Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp Result 92.7	hy - Solubl	e			<u>D</u>	Prepared	Analyzed 10/13/23 19:38 le ID: 880-34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		10/12/23 13:30	10/13/23 06:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/12/23 13:30	10/13/23 06:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/12/23 13:30	10/13/23 06:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			10/13/23 06:44	1

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GO	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.6	J	50.0	15.0	mg/Kg			10/13/23 21:28	1

Analyte Result Qualifier RL MDL Unit D 50.0 Gasoline Range Organics 23.3 J *1 15.0 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 15.0 mg/Kg 23.3 JB*1 C10-C28)

On Mange Organies (Over 020-000)	10.0	0	00.0	10.0	iiig/itg		10/10/20 00.00	10/10/20 21.20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				10/13/23 08:50	10/13/23 21:28	1
o-Terphenyl	137	S1+	70 - 130				10/13/23 08:50	10/13/23 21:28	1
Method: EPA 300.0 - Anions, lor	• •	· ·							
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	110		4.95	0.391	mg/Kg			10/13/23 19:53	1

Matrix: Solid

5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyzed Dil Fac Prepared 10/13/23 08:50 10/13/23 21:28 1 10/13/23 08:50 10/13/23 21:28 1 Oll Range Organics (Over C28-C36) <15.0 U 50.0 10/13/23 08:50 15.0 mg/Kg 10/13/23 21:28 1

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S8-2-101123 Date Collected: 10/11/23 14:10

Date Received: 10/12/23 08:58

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		10/12/23 13:30	10/13/23 07:05	
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		10/12/23 13:30	10/13/23 07:05	
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		10/12/23 13:30	10/13/23 07:05	
n-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:05	
o-Xylene	0.000402	J	0.00198	0.000341	mg/Kg		10/12/23 13:30	10/13/23 07:05	
Kylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Bromofluorobenzene (Surr)	106		70 - 130				10/12/23 13:30	10/13/23 07:05	
1,4-Difluorobenzene (Surr)	104		70 - 130				10/12/23 13:30	10/13/23 07:05	
Method: TAL SOP Total BTEX - T									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			10/13/23 07:05	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
									D:1 E -
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DIIFa
Analyte Total TPH	Result 39.7		RL 49.6	MDL 14.9	Unit mg/Kg	<u> </u>	Prepared	Analyzed 10/13/23 21:49	
Analyte	39.7	J	49.6			<u>D</u>	Prepared		
Analyte Fotal TPH Method: SW846 8015B NM - Dies	39.7 sel Range Orga	J	49.6			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	39.7 sel Range Orga	J nics (DRO)	49.6 (GC)	14.9	mg/Kg			10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10	39.7 sel Range Orga Result 22.8	J nics (DRO) Qualifier J *1	(GC) (BC) (49.6	14.9 MDL 14.9	mg/Kg Unit mg/Kg		Prepared 10/13/23 08:50	Analyzed 10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	39.7 sel Range Orga Result	J nics (DRO) Qualifier	49.6 (GC) RL	14.9 MDL	mg/Kg Unit		Prepared	10/13/23 21:49 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	39.7 sel Range Orga Result 22.8	J nics (DRO) Qualifier J *1 J B *1	(GC) (BC) (49.6	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg		Prepared 10/13/23 08:50	Analyzed 10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	sel Range Orga Result 22.8 16.9	J nics (DRO) Qualifier J *1 J B *1 U	(GC) (GC) <u>RL</u> 49.6 49.6	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50	Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	39.7 sel Range Orga Result 22.8 16.9 <14.9	J nics (DRO) Qualifier J *1 J B *1 U	(GC) (GC) 49.6 49.6 49.6	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50	Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	39.7 sel Range Orga Result 22.8 16.9 <14.9 %Recovery 166	J nics (DRO) Qualifier J *1 J B *1 U Qualifier	49.6 (GC) 49.6 49.6 49.6 Limits	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared	Analyzed 10/13/23 21:49 Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 Analyzed	Dil Fa Dil Fa
Analyte Total TPH	39.7 sel Range Orga Result 22.8 16.9 <14.9 %Recovery 166 155	J nics (DRO) Qualifier J *1 J B *1 U Qualifier S1+ S1+	(GC) <u>RL</u> 49.6 49.6 49.6 <u>Limits</u> 70 - 130 70 - 130	14.9 MDL 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50	Analyzed 10/13/23 21:49 Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 Analyzed 10/13/23 21:49	Dil Fa Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	39.7 sel Range Orga Result 22.8 16.9 <14.9 %Recovery 166 155 Chromatograp	J nics (DRO) Qualifier J *1 J B *1 U Qualifier S1+ S1+	(GC) <u>RL</u> 49.6 49.6 49.6 <u>Limits</u> 70 - 130 70 - 130	14.9 MDL 14.9 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50	Analyzed 10/13/23 21:49 Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 Analyzed 10/13/23 21:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: EPA 300.0 - Anions, Ion	39.7 sel Range Orga Result 22.8 16.9 <14.9 %Recovery 166 155 Chromatograp	J nics (DRO) Qualifier J *1 J B *1 U Qualifier S1+ S1+ S1+ bhy - Solubl	(GC) <u>RL</u> 49.6 49.6 49.6 <u>Limits</u> 70 - 130 70 - 130 e	14.9 MDL 14.9 14.9 14.9	mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50 10/13/23 08:50	Analyzed 10/13/23 21:49 Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49	Dil Fa Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate (-Chlorooctane D-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	39.7 sel Range Orga Result 22.8 16.9 <14.9 %Recovery 166 155 Chromatograp Result 116	J nics (DRO) Qualifier J *1 J B *1 U Qualifier S1+ S1+ S1+ bhy - Solubl	49.6 (GC) <u>RL</u> 49.6 49.6 49.6 <u>Limits</u> 70 - 130 70 - 130 70 - 130 8 e <u>RL</u>	14.9 MDL 14.9 14.9 14.9 MDL	mg/Kg Unit mg/Kg mg/Kg mg/Kg Unit	<u>D</u>	Prepared 10/13/23 08:50 10/13/23 08:50 10/13/23 08:50 Prepared 10/13/23 08:50 10/13/23 08:50 Prepared	10/13/23 21:49 Analyzed 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 10/13/23 21:49 Analyzed 10/13/23 21:49 Analyzed Analyzed	Dil Fa Dil Fa

	50								
Method: SW846 8021B - Vo	platile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

100

105

Lab Sample ID: 880-34338-17

Matrix: Solid

5

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10/13/23 07:25

10/13/23 07:25

10/12/23 13:30

10/12/23 13:30

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4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1

Matrix: Solid

5

Client Sample Results

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-18

Client Sample ID: S8-3-101123 Date Collected: 10/11/23 14:20

Date Received: 10/12/23 08:58

Project/Site: Burch Keeley #142

Client: ARCADIS US Inc

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			10/13/23 07:25	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.1	15.0	mg/Kg			10/13/23 22:31	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	18.7	J *1	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 22:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U *1	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 22:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		10/13/23 08:50	10/13/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				10/13/23 08:50	10/13/23 22:31	1
o-Terphenyl	151	S1+	70 - 130				10/13/23 08:50	10/13/23 22:31	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.7		4.96	0.392	mg/Kg			10/17/23 16:49	1

Client Sample ID: S8-4-101123

Date Collected: 10/11/23 14:30 Date Received: 10/12/23 08:58

Lab Sample ID: 880-34338-19 Matrix: Solid

-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		10/12/23 13:30	10/13/23 07:46	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		10/12/23 13:30	10/13/23 07:46	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		10/12/23 13:30	10/13/23 07:46	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:46	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		10/12/23 13:30	10/13/23 07:46	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		10/12/23 13:30	10/13/23 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/12/23 13:30	10/13/23 07:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/12/23 13:30	10/13/23 07:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			10/13/23 07:46	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.6		50.5	15.1	mg/Kg			10/13/23 22:51	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	36.8	J *1	50.5	15.1	mg/Kg		10/13/23 08:50	10/13/23 22:51	1
(GRO)-C6-C10									

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C10-C28)

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S8-4-101123

Date Collected: 10/11/23 14:30 Date Received: 10/12/23 08:58

SDG: Lea County, NM Lab Sample ID: 880-34338-19

Matrix: Solid

5

Job ID: 880-34338-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		10/13/23 08:50	10/13/23 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				10/13/23 08:50	10/13/23 22:51	1
o-Terphenyl	144	S1+	70 - 130				10/13/23 08:50	10/13/23 22:51	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.99	0.394	mg/Kg			10/17/23 16:55	1

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

_				Pe
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130))
880-34338-1	S1-1-101123	90	102	
880-34338-1 MS	S1-1-101123	98	96	
880-34338-1 MSD	S1-1-101123	105	101	
880-34338-2	S1-2-101123	115	106	
880-34338-3	S1-3-101123	105	105	
880-34338-4	S2-1-101123	103	114	
880-34338-5	S2-2-101023	109	107	
880-34338-6	S3-1-101023	114	107	
880-34338-7	S3-2-101123	100	105	
880-34338-8	S4-1-101123	111	113	
880-34338-9	S4-2-101123	117	106	
880-34338-10	S5-1-101123	108	105	
880-34338-11	S5-2-101123	91	98	
880-34338-12	S6-1-101023	99	98	
880-34338-13	S6-2-101023	116	104	
880-34338-14	S7-1-101123	112	103	
880-34338-15	S7-2-101123	112	112	
880-34338-16	S8-1-101123	106	101	
880-34338-17	S8-2-101123	106	104	
880-34338-18	S8-3-101123	100	105	
880-34338-19	S8-4-101123	110	106	
LCS 880-64563/1-A	Lab Control Sample	100	109	
LCSD 880-64563/2-A	Lab Control Sample Dup	111	104	
MB 880-64507/5-A	Method Blank	111	123	
MB 880-64563/5-A	Method Blank	118	138 S1+	+
		110	100 011	•

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-34338-1	S1-1-101123	143 S1+	138 S1+
880-34338-2	S1-2-101123	157 S1+	151 S1+
880-34338-3	S1-3-101123	165 S1+	153 S1+
880-34338-4	S2-1-101123	150 S1+	145 S1+
880-34338-5	S2-2-101023	166 S1+	156 S1+
880-34338-6	S3-1-101023	145 S1+	138 S1+
880-34338-7	S3-2-101123	160 S1+	156 S1+
880-34338-8	S4-1-101123	143 S1+	134 S1+
880-34338-8 MS	S4-1-101123	156 S1+	130
880-34338-8 MSD	S4-1-101123	150 S1+	124
880-34338-9	S4-2-101123	146 S1+	130
880-34338-10	S5-1-101123	167 S1+	156 S1+
880-34338-11	S5-2-101123	146 S1+	132 S1+
880-34338-12	S6-1-101023	156 S1+	139 S1+

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Job ID: 880-34338-1 SDG: Lea County, NM

Job ID: 880-34338-1 SDG: Lea County, NM

Project/Site: Burch Keeley #142 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Client: ARCADIS US Inc

Prep	Type: Total/NA	

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		. 5
880-34338-13	S6-2-101023	157 S1+	146 S1+		
880-34338-14	S7-1-101123	159 S1+	150 S1+		6
880-34338-15	S7-2-101123	154 S1+	144 S1+		U
880-34338-16	S8-1-101123	148 S1+	137 S1+		
880-34338-17	S8-2-101123	166 S1+	155 S1+		
880-34338-18	S8-3-101123	162 S1+	151 S1+		
880-34338-19	S8-4-101123	155 S1+	144 S1+		ð
LCS 880-64532/2-A	Lab Control Sample	117	136 S1+		
LCS 880-64562/2-A	Lab Control Sample	142 S1+	163 S1+		9
LCS 880-64629/2-A	Lab Control Sample	103	115		
LCSD 880-64532/3-A	Lab Control Sample Dup	82	88		
LCSD 880-64562/3-A	Lab Control Sample Dup	161 S1+	173 S1+		
LCSD 880-64629/3-A	Lab Control Sample Dup	105	107		
MB 880-64532/1-A	Method Blank	196 S1+	182 S1+		
MB 880-64562/1-A	Method Blank	210 S1+	209 S1+		
MB 880-64629/1-A	Method Blank	147 S1+	134 S1+		
Surrogate Legend					
1CO = 1-Chlorooctane					

OTPH = o-Terphenyl

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Released to Imaging: 4/30/2024 1:30:17 PM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6450	07/5-A									Client Sa	mple ID: Met	hod	Blank
Matrix: Solid											Prep Type		
Analysis Batch: 64524											Prep Ba		
	MB	MB											
Analyte	Result	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed		Dil Fac
Benzene	<0.000385	U	0.00200	0.00	0385	mg/Kg			10/1	1/23 16:59	10/12/23 12:0	1 –	1
Toluene	<0.000456	U	0.00200	0.00	0456	mg/Kg			10/1	1/23 16:59	10/12/23 12:0	1	1
Ethylbenzene	<0.000565	U	0.00200	0.00	0565	mg/Kg			10/1	1/23 16:59	10/12/23 12:0	1	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.0	0101	mg/Kg			10/1	1/23 16:59	10/12/23 12:0	1	1
o-Xylene	<0.000344	U	0.00200	0.00	0344				10/1	1/23 16:59	10/12/23 12:0	1	1
Xylenes, Total	<0.00101		0.00400	0.0	0101	mg/Kg				1/23 16:59	10/12/23 12:0		1
, ,						5 5							
	MB	МВ											
Surrogate	%Recovery	Qualifier	Limits					_	P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130						10/1	1/23 16:59	10/12/23 12:0	1	1
1,4-Difluorobenzene (Surr)	123		70 - 130						10/1	1/23 16:59	10/12/23 12:0	1	1
- Lab Sample ID: MB 880-6456	63/ 5- A									Client Sa	mple ID: Met	hod	Blank
Matrix: Solid											Prep Type		
Analysis Batch: 64524											Prep Ba		
Analysis Batch. 04024	MB	мв									Перва	ton.	04000
Analyte	Result		RL		MDL	Unit		D	Р	repared	Analyzed		Dil Fac
Benzene	<0.000385		0.00200	-	0385					2/23 13:30	10/12/23 23:3		1
Toluene	< 0.000456		0.00200		0456					2/23 13:30	10/12/23 23:3		1
Ethylbenzene	<0.000565		0.00200		0565					2/23 13:30	10/12/23 23:3		1
m-Xylene & p-Xylene	<0.00101		0.00200		0101					2/23 13:30	10/12/23 23:3		' 1
o-Xylene	<0.00101		0.00400		0344					2/23 13:30	10/12/23 23:3		1
	<0.00101		0.00200		0101					2/23 13:30	10/12/23 23:3		1
Xylenes, Total	<0.00101	0	0.00400	0.0	0101	mg/Kg			10/1	2/23 13.30	10/12/23 23.3	9	1
	MB	МВ											
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130					_	10/1	2/23 13:30	10/12/23 23:3	9	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130						10/1	2/23 13:30	10/12/23 23:3	9	1
- Lab Sample ID: LCS 880-645	563/1-A							Cli	ient	Sample	ID: Lab Cont	ol Sa	amnle
Matrix: Solid										oumpro	Prep Type		
Analysis Batch: 64524											Prep Ba		
Analysis Datch. 04524			Spike	LCS	LCS						%Rec	ten.	04000
Analyte			Added	Result			Unit		D	%Rec	Limits		
Benzene			0.100	0.1066	Qua				_	107	70 - 130		
Toluene			0.100	0.09335			mg/Kg mg/Kg			93	70 - 130 70 - 130		
							mg/Kg ∞g/Kg						
Ethylbenzene			0.100	0.08896			mg/Kg ∞g/Kg			89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1947			ng/Kg			97	70 - 130		
o-Xylene			0.100	0.09431		I	mg/Kg			94	70 - 130		
	LCS LCS												
Surrogate	%Recovery Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	100		70 - 130										
1,4-Difluorobenzene (Surr)	109		70 - 130										
- Lab Sample ID: LCSD 880-64	4563/2-4						Clie	ent S	Sam	nle ID· L	ab Control Sa	ampl	e Dun
Matrix: Solid							UII		Jun	рю ю. L	Prep Type		
Analysis Batch: 64524			Spike	LCSD	1.06	n					Prep Ba %Rec	iun.	04303 RPD
Analyta			Spike Addod				Init		P	% Bee		חסכ	
Analyte			Added	Result	Qua	inter	Unit		D	%Rec	Limits	RPD	Limit

2

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Job ID: 880-34338-1 SDG: Lea County, NM

Benzene

0.1091

mg/Kg

109

70 - 130

0.100

Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-34338-1 SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-6456	3/2-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid									Prep 1	ype: To	tal/N/
Analysis Batch: 64524									Prep	Batch:	6456
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Toluene			0.100	0.09063		mg/Kg		91	70 - 130	3	3
Ethylbenzene			0.100	0.09204		mg/Kg		92	70 - 130	3	3
m-Xylene & p-Xylene			0.200	0.2139		mg/Kg		107	70 - 130	9	3
o-Xylene			0.100	0.1049		mg/Kg		105	70 - 130	11	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								
Lab Sample ID: 880-34338-1 MS								Client	Sample ID	• S1.1.1	0112
Matrix: Solid								onem		ype: To	
Analysis Batch: 64524										Batch:	
Analysis Datch. 04524	Sample	Sample	Spike	MS	MS				%Rec	Daten.	0400
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.000383		0.0996	0.09090		mg/Kg		91	70 - 130		
Toluene	< 0.000454		0.0996	0.08339		mg/Kg		84	70 - 130		
Ethylbenzene	< 0.000563		0.0996	0.07473		mg/Kg		75	70 - 130		
m-Xylene & p-Xylene	<0.000303		0.199	0.1756		mg/Kg		88	70 - 130		
o-Xylene	< 0.000343		0.0996	0.08800		mg/Kg		88	70 - 130		
o Aylene			0.0000	0.00000		ing/itg		00	10-100		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98	Quanner	70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130 70 - 130								
1,4-Dilluolobenzene (Sull)	90		70 - 730								
Lab Sample ID: 880-34338-1 MS	SD							Client	Sample ID	: S1-1-1	0112
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 64524									Prep	Batch:	6456
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	<0.000383	U	0.100	0.1059		mg/Kg		106	70 - 130	15	3
Toluene	<0.000454	U	0.100	0.08479		mg/Kg		85	70 - 130	2	3
Ethylbenzene	<0.000563	U	0.100	0.08333		mg/Kg		83	70 - 130	11	:
m-Xylene & p-Xylene	<0.00101	U	0.200	0.1922		mg/Kg		96	70 - 130	9	3
o-Xylene	<0.000343	U	0.100	0.09429		mg/Kg		94	70 - 130	7	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: MB 880-64532/1-A Matrix: Solid Analysis Batch: 64515							Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batch	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<15.0	U	50.0	15.0	mg/Kg		10/12/23 08:00	10/12/23 08:09	1
(GRO)-C6-C10									

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Job ID: 880-34338-1 SDG: Lea County, NM

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

C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	%Recovery 82 88 /1-A	MB esult 15.0 15.0 15.0 <i>MB</i>	MB Qualifier U U	70 - 130 70 - 130	RL 50.0 50.0 50.0		15.0 15.0	Unit mg/Kg mg/Kg mg/Kg			Client Prepared 10/12/23 13 10/12/23 13 10/12/23 13 Prepared	1 :28 10 :28 10 :28 10	le ID: Metho Prep Type: Prep Batc Analyzed 0/12/23 19:45 0/12/23 19:45 0/12/23 19:45 Analyzed	Total/
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 82 88 /1-A Re <	MB 25011 15.0 15.0	MB Qualifier U U		50.0 50.0		15.0 15.0	mg/Kg mg/Kg			Prepared 10/12/23 13 10/12/23 13	1 :28 10 :28 10	Prep Type: Prep Batc Analyzed)/12/23 19:45	Total/ :h: 64
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 82 88 /1-A Re <	MB 25ult 15.0	MB Qualifier U		50.0 50.0		15.0 15.0	mg/Kg mg/Kg			Prepared 10/12/23 13 10/12/23 13	1 :28 10 :28 10	Prep Type: Prep Batc Analyzed)/12/23 19:45	Total/ :h: 64
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 82 88 /1-A Re	MB esult 15.0	MB Qualifier U		50.0		15.0	mg/Kg			Prepared	I :28 10	Prep Type: Prep Batc Analyzed 0/12/23 19:45	Total/ :h: 64
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515 Analyte Gasoline Range Organics	%Recovery 82 88 /1-A Re	MB	MB Qualifier								Prepared		Prep Type: Prep Batc Analyzed	Total/ :h: 64
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid Analysis Batch: 64515	%Recovery 82 88 /1-A Re	MB	MB Qualifier		RL		MDL	Unit		D		Ì	Prep Type: Prep Bato	Total/ :h: 64
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid	%Recovery 82 88										Client		Prep Type:	Total/
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562 Matrix: Solid	%Recovery 82 88	Quan									Client		Prep Type:	Total/
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-64562	%Recovery 82 88	Qual									Client			
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 82 88	Qual									Client	t Sampl	e ID: Meth	od Bla
Surrogate	%Recovery 82	Quan												
Surrogate	%Recovery 82	Qual												
Surrogate	%Recovery	Quai		70 - 130										
		Qua												
C10-C28)	LUSD			Limits										
C10-C28)	1000	LCSI	D											
														-
GRO)-C6-C10 Diesel Range Organics (Over				1000		772.7			mg/Kg		77	70 -	. 130	13
Gasoline Range Organics				1000		798.2			mg/Kg		80) 70 -	. 130	5
Analyte				Added		Result	Qual		Unit		D %Rec			
				Spike		LCSD						%R		F
Analysis Batch: 64515													Prep Bato	
Matrix: Solid												1	Prep Type:	
ab Sample ID: LCSD 880-645	32/3-A								Cli	ent S	Sample ID		Control San	- C
o-Terphenyl	136	S1+		70 _ 130										
I-Chlorooctane	117			70 - 130										
Surrogate			ifier	Limits										
	LCS	LCS												
C10-C28)														
Diesel Range Organics (Over				1000		878.5			mg/Kg		88	s 70 -	130	
(GRO)-C6-C10				1000		0-70.0					04	10-	100	
Gasoline Range Organics				1000		843.0	ud		mg/Kg		<u>D</u> %Red 84		. 130	
Analyte				Added		Result		ifier	Unit		D %Rec			
Analysis Batch: 64515				Spike		LCS	109					%R	Prep Bato	
Matrix: Solid													Prep Type:	
Lab Sample ID: LCS 880-64532	<u> 212-</u> A									Cl	ient Samp		ab Contro	
										~		1.15	ah 0 :	
o-Terphenyl		182	S1+	70 -	130						10/12/23 08	:00 10	0/12/23 08:09	
1-Chlorooctane			S1+	70 -	130						10/12/23 08	:00 10	0/12/23 08:09	
Surrogate	%Reco	very	Qualifier	Lim	its					_	Prepared	1	Analyzed	Dil
		ΜВ	МВ											
Oll Range Organics (Over C28-C36)	<	15.0	U		50.0		15.0	mg/Kg			10/12/23 08	:00 10)/12/23 08:09	
C10-C28)														
	<	15.0	U		50.0		15.0	mg/Kg			10/12/23 08	:00 10)/12/23 08:09	
Diesel Range Organics (Over	Re		Qualifier		RL		MDL	Unit		D	Prepared	I	Analyzed	Dil
Analyte Diesel Range Organics (Over		мв	мв										Fiep Date	
Analyte													Prep Type: Prep Bato	
-													Dron Tunou	

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

ab Sample ID: MB 880-64562/1	i -A										Client Sa	ample ID: N	lethod	Blank
Aatrix: Solid												Prep Ty		
Analysis Batch: 64515														64562
			MB											
	%Reco	-	Qualifier	Limi							Prepared	Analyze		Dil Fac
p-Terphenyl		209	S1+	70 - 1	130					10/	/12/23 13:28	10/12/23 1	9:45	1
Lab Sample ID: LCS 880-64562/2	2-A									Clier	t Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid												Prep Ty		
Analysis Batch: 64515														64562
······································				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qual	lifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			··	1000		1015			mg/Kg		102	70 - 130		
(GRO)-C6-C10									-					
Diesel Range Organics (Over C10-C28)				1000		1103			mg/Kg		110	70 - 130		
	LCS	LCS	l.											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	142			70 - 130										
o-Terphenyl	163	S1+		70 - 130										
Analysis Batch: 64515 Analyte				Spike Added		LCSD Result			Unit	D	%Rec	Prep I %Rec Limits	Batch:	64562 RPD Limit
Analyte Gasoline Range Organics									mg/Kg	<u> </u>		70 - 130	30	20
(GRO)-C6-C10				1000		100.0	'		mg/rxg		10	10-100	00	20
Diesel Range Organics (Over C10-C28)				1000		567.5	*- *1		mg/Kg		57	70 - 130	64	20
	LCSD	/ CS	ה											
Surrogate	%Recovery			Limits										
1-Chlorooctane	161			70 - 130										
o-Terphenyl	173			70 - 130										
Lab Sample ID: MB 880-64629/1	- A										Client Sa	ample ID: N		
Matrix: Solid												Prep Ty	ype: To	tal/NA
Analysis Batch: 64616												Prep I	Batch:	64629
			MB											
Analyte			Qualifier		RL		MDL				Prepared	Analyze		Dil Fac
Gasoline Range Organics	<	:15.0	U		50.0		15.0	mg/Kg		10/	/13/23 07:30	10/13/23 09	9:29	1
(GRO)-C6-C10	2	4 40			50.0		15.0	malka		10	142/02 07.20	10/12/22 0	0.00	1
Diesel Range Organics (Over	24	24.42	J		50.0		15.0	mg/Kg		10/	/13/23 07:30	10/13/23 09	9:29	1
C10-C28) Oll Range Organics (Over C28-C36)	<	:15.0	U		50.0		15.0	mg/Kg		10/	/13/23 07:30	10/13/23 09	9:29	1
		MB	МВ											
Surrogate	%Reco	very	Qualifier	Limi	its						Prepared	Analyze	ed	Dil Fac
1-Chlorooctane		147	S1+	70 - 1	130					10	/13/23 07:30	10/13/23 0	9:29	1

o-Terphenyl

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10/13/23 09:29

10/13/23 07:30

70 - 130

134 S1+

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

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

	29/2-A						Client	Sample	ID: Lab Co		
Matrix: Solid										Гуре: То	
Analysis Batch: 64616									Prep	Batch:	64629
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	789.5		mg/Kg		79	70 - 130		
GRO)-C6-C10											
Diesel Range Organics (Over			1000	743.9		mg/Kg		74	70 - 130		
C10-C28)											
	1.00	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
p-Terphenyl	115		70 - 130								
							_				_
Lab Sample ID: LCSD 880-64	629/3-A					Clier	nt Sam	ple ID: I	Lab Contro		
Matrix: Solid									Prep 1	Type: To	tal/N
Analysis Batch: 64616									Prep	Batch:	6462
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	1145	*1	mg/Kg		114	70 - 130	37	2
GRO)-C6-C10						5 5					
Diesel Range Organics (Over			1000	1132	*1	mg/Kg		113	70 - 130	41	2
C10-C28)						5 5					
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	107		70 - 130								
Matrix: Solid Analysis Batch: 64616	Sample	Sample	Spike	MS	MS					Type: To Batch:	
		oumpic	Opine								
habito	-	Qualifier	Addad			Unit	Б	% Pac	Limite		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
Gasoline Range Organics	-		Added			Unit mg/Kg	<u> </u>	%Rec 108	Limits 70 - 130		
Gasoline Range Organics GRO)-C6-C10	Result <14.9	U *1	1010	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <14.9			Result	Qualifier		<u>D</u>				
Gasoline Range Organics GRO)-C6-C10	- Result <14.9 17.6	U *1 J F1 B *1	1010	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <14.9 17.6	U *1 J F1 B *1 <i>M</i> S	1010	Result 1084	Qualifier	mg/Kg	D	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Result <14.9 17.6 <i>MS</i> % <i>Recovery</i>	U *1 J F1 B *1 MS Qualifier	1010 1010 <i>Limits</i>	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	Result <14.9	U *1 J F1 B *1 <i>M</i> S	1010 1010 <u>Limits</u> 70 - 130	Result 1084	Qualifier	mg/Kg	<u>D</u>	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	Result <14.9 17.6 <i>MS</i> % <i>Recovery</i>	U *1 J F1 B *1 MS Qualifier	1010 1010 <i>Limits</i>	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	Result <14.9 17.6 %Recovery 156 130	U *1 J F1 B *1 MS Qualifier	1010 1010 <u>Limits</u> 70 - 130	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 ₋ 130 70 ₋ 130): \$4-1-1	0112
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I	Result <14.9 17.6 %Recovery 156 130	U *1 J F1 B *1 MS Qualifier	1010 1010 <u>Limits</u> 70 - 130	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130 70 - 130 : Sample ID		
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid	Result <14.9 17.6 %Recovery 156 130	U *1 J F1 B *1 MS Qualifier	1010 1010 <u>Limits</u> 70 - 130	Result 1084	Qualifier	mg/Kg	<u> </u>	108	70 - 130 70 - 130 Sample ID Prep 1	Гуре: То	tal/N
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I	Result <14.9 17.6 <i>MS</i> %Recovery 156 130 MSD	U *1 J F1 B *1 MS Qualifier S1+	1010 1010 <u>Limits</u> 70 - 130 70 - 130	Result 1084 1568	Qualifier F1	mg/Kg	<u>D</u>	108	70 - 130 70 - 130 Sample ID Prep 1 Prep		tal/N 6462
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616	Result <14.9 17.6 <i>MS</i> %Recovery 156 130 MSD Sample	U *1 J F1 B *1 MS Qualifier S1+	1010 1010 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1084 1568 MSD	Qualifier F1	mg/Kg		108 154 Client	70 - 130 70 - 130 : Sample ID Prep 1 Prep %Rec	Type: To Batch:	tal/N 6462 RP
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte	Result <14.9 17.6 <i>MS</i> %Recovery 156 130 MSD Sample Result	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier	1010 1010 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1084 1568 MSD Result	Qualifier F1	mg/Kg mg/Kg	<u>D</u>	108 154 Client	70 - 130 70 - 130 5 5 5 70 - 130 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Type: To Batch: 	tal/N/ 6462 RP Lim
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte Gasoline Range Organics	Result <14.9 17.6 <i>MS</i> %Recovery 156 130 MSD Sample	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier	1010 1010 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1084 1568 MSD	Qualifier F1	mg/Kg		108 154 Client	70 - 130 70 - 130 : Sample ID Prep 1 Prep %Rec	Type: To Batch:	tal/N/ 6462 RP Lim
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte Gasoline Range Organics GRO)-C6-C10	Result <14.9	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier U *1	1010 1010 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 1010	Result 1084 1568 MSD Result 1069	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		108 154 Client %Rec 106	70 - 130 70 - 130 5 5 5 7 7 7 7 7 7 0 - 130	Type: To Batch: RPD 1	tal/N 6462 RP Lim
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <14.9	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier	1010 1010 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1084 1568 MSD Result	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg		108 154 Client	70 - 130 70 - 130 5 5 5 70 - 130 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Type: To Batch: 	tal/N 6462 RP Lim 2
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <14.9	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier U *1 J F1 B *1	1010 1010 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 1010	Result 1084 1568 MSD Result 1069	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		108 154 Client %Rec 106	70 - 130 70 - 130 5 5 5 7 7 7 7 7 7 0 - 130	Type: To Batch: RPD 1	tal/N 6462 RP Lim 2
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-34338-8 I Matrix: Solid Analysis Batch: 64616 Analyte Gasoline Range Organics	Result <14.9	U *1 J F1 B *1 MS Qualifier S1+ Sample Qualifier U *1 J F1 B *1 MSD	1010 1010 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 1010	Result 1084 1568 MSD Result 1069	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		108 154 Client %Rec 106	70 - 130 70 - 130 5 5 5 7 7 7 7 7 7 0 - 130	Type: To Batch: RPD 1	tal/N/

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Job ID: 880-34338-1 SDG: Lea County, NM

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

Matrix: Solid											enon	Sample IE Prep 1	Гуре: Т	
Analysis Batch: 64616													Batch	
	MSD	MSD												
Surrogate %	Recovery	Qualifier	Limits											
o-Terphenyl	124		70 - 130	-										
/ lethod: 300.0 - Anions, Ion Cl	nromat	ography												
Lab Sample ID: MB 880-64571/1-A											Client S	ample ID:	Metho	d Blani
Matrix: Solid													Type:	
Analysis Batch: 64698														
-		MB MB												
Analyte	R	esult Qualifier		RL		MDL	Unit		D	Р	repared	Analyz	zed	Dil Fa
Chloride	<().395 U		5.00	(0.395	mg/Kg					10/13/23	17:23	
Lab Sample ID: LCS 880-64571/2-A									Cli	ient	Sample	ID: Lab C	ontrol	Sample
Matrix: Solid												Prep	Type:	Solubl
Analysis Batch: 64698														
			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Quali	ifier	Unit		D	%Rec	Limits		
Chloride			250		233.3			mg/Kg		_	93	90 - 110		
Lab Sample ID: LCSD 880-64571/3-	.Δ							CI	ient S	Sam	nle ID [.] I	Lab Contro	ol Sami	ale Dur
Matrix: Solid													Type:	-
Analysis Batch: 64698													.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
······,····			Spike		LCSD	LCSE	5					%Rec		RPI
Analyte			Added		Result	Quali	ifier	Unit		D	%Rec	Limits	RPD	Lim
			250		233.6			mg/Kg		_	93	90 - 110	0	20
Chloride														
Chloride											Client	Sample IF		40402
Lab Sample ID: 880-34338-13 MS											Client	Sample ID		
Lab Sample ID: 880-34338-13 MS Matrix: Solid											Client): S6-2- Type: :	
Chloride Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698	Sample	Samolo	Snike		MS	MS					Client	Prep		
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698	-	Sample	Spike			MS	ifier	Unit		п		Prep %Rec		
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte	-	Qualifier	Spike Added 250		MS Result 685.6	Quali	ifier	Unit mg/Kg		<u>D</u>	Client	Prep		
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride	Result	Qualifier	Added		Result	Quali	ifier			<u>D</u>	%Rec 88	Prep %Rec Limits 90 - 110	Type: S	Solubl
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD	Result	Qualifier	Added		Result	Quali	ifier			<u>D</u>	%Rec 88	Prep %Rec Limits 90 - 110 Sample ID	Type: : 0: S6-2-	Soluble
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid	Result	Qualifier	Added		Result	Quali	ifier			<u>D</u>	%Rec	Prep %Rec Limits 90 - 110 Sample ID	Type: S	Soluble
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid	Result 466	Qualifier F1	Added 250		Result 685.6	Quali F1	ifier			<u>D</u>	%Rec	Prep %Rec Limits 90 - 110 Sample ID Prep	Type: : 0: S6-2-	Soluble 10102 Soluble
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698	Result 466 Sample	Qualifier F1	Added 250 Spike		Result 685.6 MSD	Quali F1		mg/Kg		_	%Rec 88 Client	Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: 3	Solubio 101023 Solubio RPI
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte	Result 466 Sample Result	Qualifier F1 Sample Qualifier	Added 250 Spike Added		Result 685.6 MSD Result	Quali F1 MSD Quali		mg/Kg		D 	%Rec 88 Client %Rec	Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	Type: 3	Solubio 10102: Solubio RPI Limi
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte	Result 466 Sample	Qualifier F1 Sample Qualifier	Added 250 Spike		Result 685.6 MSD	Quali F1 MSD Quali		mg/Kg		_	%Rec 88 Client	Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: 3	Solubi 10102 Solubi RPI Lim
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte Chloride	Result 466 Sample Result	Qualifier F1 Sample Qualifier	Added 250 Spike Added		Result 685.6 MSD Result	Quali F1 MSD Quali		mg/Kg			%Rec 88 Client %Rec 87	Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	Type: 3 0: S6-2- Type: 3 	Soluble 101023 Soluble RPI Limi 2
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: MB 880-64572/1-A	Result 466 Sample Result	Qualifier F1 Sample Qualifier	Added 250 Spike Added		Result 685.6 MSD Result	Quali F1 MSD Quali		mg/Kg			%Rec 88 Client %Rec 87	Prep %Rec Limits 90 - 110 Sample ID %Rec Limits 90 - 110 Sample ID:	Type: 3 0: S6-2- Type: 3 	Solubi -101023 Solubi RPI Lim 2 d Blan
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: MB 880-64572/1-A Matrix: Solid	Result 466 Sample Result	Qualifier F1 Sample Qualifier	Added 250 Spike Added		Result 685.6 MSD Result	Quali F1 MSD Quali		mg/Kg			%Rec 88 Client %Rec 87	Prep %Rec Limits 90 - 110 Sample ID %Rec Limits 90 - 110 Sample ID:	Type: 3 0: S6-2- Type: 3 	Soluble -101023 Soluble
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid	Result 466 Sample Result	Qualifier F1 Sample Qualifier	Added 250 Spike Added		Result 685.6 MSD Result	Quali F1 MSD Quali		mg/Kg			%Rec 88 Client %Rec 87	Prep %Rec Limits 90 - 110 Sample ID %Rec Limits 90 - 110 Sample ID:	Type: 3 0: S6-2- Type: 3 	Soluble -101023 Soluble
Lab Sample ID: 880-34338-13 MS Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: 880-34338-13 MSD Matrix: Solid Analysis Batch: 64698 Analyte Chloride Lab Sample ID: MB 880-64572/1-A Matrix: Solid	Result 466 Sample Result 466	Qualifier F1 Sample Qualifier F1	Added 250 Spike Added		Result 685.6 MSD Result 682.7	Quali F1 MSD Quali	ifier	mg/Kg			%Rec 88 Client %Rec 87	Prep %Rec Limits 90 - 110 Sample ID %Rec Limits 90 - 110 Sample ID:	Type: 3	Soluble -101023 Soluble

Client: ARCADIS US Inc

Project/Site: Burch Keeley #142

Job ID: 880-34338-1 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880 Matrix: Solid	-64572/2-A						Client	Sample	D: Lab C	ontrol Sa Type: S	
Analysis Batch: 64702									Fieb	Type. 5	oluble
Analysis Datch. 04/02			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	247.1		mg/Kg		99	90 - 110		
 	0.04570/2.4					Cliev			l ch Contro	. Commi	Dur
Lab Sample ID: LCSD 88 Matrix: Solid	0-04372/3-A					Cilei	iii Sali	ipie iD.	Lab Contro		
									Frep	Type: S	oluble
Analysis Batch: 64702			Spike	1.060	LCSD				%Rec		RPD
Analyte			Added	Result		Unit	D	%Rec	Limits	RPD	Limit
			250	247.7	Quaimer	mg/Kg		99	90 - 110	0	20
			250	247.7		ilig/Kg		99	90 - 110	0	20
	8-3 MS							Client	Sample ID): S1-3-1	01123
Matrix: Solid										Type: S	
Analysis Batch: 64702											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	108		249	351.7		mg/Kg		98	90 - 110		
_ Lab Sample ID: 880-3433	8-3 MSD							Client	Sample ID): S1-3-1	01123
Matrix: Solid										Type: S	
Analysis Batch: 64702										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	108		249	351.8		mg/Kg		98	90 - 110	0	20

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Job ID: 880-34338-1 SDG: Lea County, NM

Prep Batch: 64507

GC VOA					
Prep Batch: 64507					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64507/5-A	Method Blank	Total/NA	Solid	5035	
– Analysis Batch: 64524					
_ Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Total/NA	Solid	8021B	64563
880-34338-2	S1-2-101123	Total/NA	Solid	8021B	64563
880-34338-3	S1-3-101123	Total/NA	Solid	8021B	64563
880-34338-4	S2-1-101123	Total/NA	Solid	8021B	64563
880-34338-5	S2-2-101023	Total/NA	Solid	8021B	64563
880-34338-6	S3-1-101023	Total/NA	Solid	8021B	64563
880-34338-7	S3-2-101123	Total/NA	Solid	8021B	64563
880-34338-8	S4-1-101123	Total/NA	Solid	8021B	64563 🧹
880-34338-9	S4-2-101123	Total/NA	Solid	8021B	64563
880-34338-10	S5-1-101123	Total/NA	Solid	8021B	64563
880-34338-11	S5-2-101123	Total/NA	Solid	8021B	64563
880-34338-12	S6-1-101023	Total/NA	Solid	8021B	64563
880-34338-13	S6-2-101023	Total/NA	Solid	8021B	64563
880-34338-14	S7-1-101123	Total/NA	Solid	8021B	64563
880-34338-15	S7-2-101123	Total/NA	Solid	8021B	64563
880-34338-16	S8-1-101123	Total/NA	Solid	8021B	64563
880-34338-17	S8-2-101123	Total/NA	Solid	8021B	64563
880-34338-18	S8-3-101123	Total/NA	Solid	8021B	64563
880-34338-19	S8-4-101123	Total/NA	Solid	8021B	64563
MB 880-64507/5-A	Method Blank	Total/NA	Solid	8021B	64507
MB 880-64563/5-A	Method Blank	Total/NA	Solid	8021B	64563
LCS 880-64563/1-A	Lab Control Sample	Total/NA	Solid	8021B	64563
LCSD 880-64563/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64563
880-34338-1 MS	S1-1-101123	Total/NA	Solid	8021B	64563
880-34338-1 MSD	S1-1-101123	Total/NA	Solid	8021B	64563

Prep Batch: 64563

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Total/NA	Solid	5030B	
880-34338-2	S1-2-101123	Total/NA	Solid	5030B	
880-34338-3	S1-3-101123	Total/NA	Solid	5030B	
880-34338-4	S2-1-101123	Total/NA	Solid	5030B	
880-34338-5	S2-2-101023	Total/NA	Solid	5030B	
880-34338-6	S3-1-101023	Total/NA	Solid	5030B	
880-34338-7	S3-2-101123	Total/NA	Solid	5030B	
880-34338-8	S4-1-101123	Total/NA	Solid	5030B	
880-34338-9	S4-2-101123	Total/NA	Solid	5030B	
880-34338-10	S5-1-101123	Total/NA	Solid	5030B	
880-34338-11	S5-2-101123	Total/NA	Solid	5030B	
880-34338-12	S6-1-101023	Total/NA	Solid	5030B	
880-34338-13	S6-2-101023	Total/NA	Solid	5030B	
880-34338-14	S7-1-101123	Total/NA	Solid	5030B	
880-34338-15	S7-2-101123	Total/NA	Solid	5030B	
880-34338-16	S8-1-101123	Total/NA	Solid	5030B	
880-34338-17	S8-2-101123	Total/NA	Solid	5030B	
880-34338-18	S8-3-101123	Total/NA	Solid	5030B	
880-34338-19	S8-4-101123	Total/NA	Solid	5030B	

Eurofins Midland

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

GC VOA (Continued)

Prep Batch: 64563 (Continued)

Lab Sample ID MB 880-64563/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5030B	Prep Batch
LCS 880-64563/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-64563/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-34338-1 MS	S1-1-101123	Total/NA	Solid	5030B	
880-34338-1 MSD	S1-1-101123	Total/NA	Solid	5030B	

Analysis Batch: 64673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Total/NA	Solid	Total BTEX	
880-34338-2	S1-2-101123	Total/NA	Solid	Total BTEX	
880-34338-3	S1-3-101123	Total/NA	Solid	Total BTEX	
880-34338-4	S2-1-101123	Total/NA	Solid	Total BTEX	
880-34338-5	S2-2-101023	Total/NA	Solid	Total BTEX	
880-34338-6	S3-1-101023	Total/NA	Solid	Total BTEX	
880-34338-7	S3-2-101123	Total/NA	Solid	Total BTEX	
380-34338-8	S4-1-101123	Total/NA	Solid	Total BTEX	
380-34338-9	S4-2-101123	Total/NA	Solid	Total BTEX	
380-34338-10	S5-1-101123	Total/NA	Solid	Total BTEX	
380-34338-11	S5-2-101123	Total/NA	Solid	Total BTEX	
380-34338-12	S6-1-101023	Total/NA	Solid	Total BTEX	
380-34338-13	S6-2-101023	Total/NA	Solid	Total BTEX	
380-34338-14	S7-1-101123	Total/NA	Solid	Total BTEX	
380-34338-15	S7-2-101123	Total/NA	Solid	Total BTEX	
380-34338-16	S8-1-101123	Total/NA	Solid	Total BTEX	
380-34338-17	S8-2-101123	Total/NA	Solid	Total BTEX	
380-34338-18	S8-3-101123	Total/NA	Solid	Total BTEX	
880-34338-19	S8-4-101123	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Total/NA	Solid	8015B NM	64532
880-34338-2	S1-2-101123	Total/NA	Solid	8015B NM	64562
880-34338-3	S1-3-101123	Total/NA	Solid	8015B NM	64562
880-34338-4	S2-1-101123	Total/NA	Solid	8015B NM	64562
880-34338-5	S2-2-101023	Total/NA	Solid	8015B NM	64562
880-34338-6	S3-1-101023	Total/NA	Solid	8015B NM	64562
880-34338-7	S3-2-101123	Total/NA	Solid	8015B NM	64562
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015B NM	64532
MB 880-64562/1-A	Method Blank	Total/NA	Solid	8015B NM	64562
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64532
LCS 880-64562/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64562
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64532
LCSD 880-64562/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64562

Prep Batch: 64532

Lab Sample ID 880-34338-1	Client Sample ID S1-1-101123	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Job ID: 880-34338-1 SDG: Lea County, NM

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

GC Semi VOA (Continued)

Prep Batch: 64532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Prep Batch: 64562					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-2	S1-2-101123	Total/NA	Solid	8015NM Prep	
880-34338-3	S1-3-101123	Total/NA	Solid	8015NM Prep	
880-34338-4	S2-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-5	S2-2-101023	Total/NA	Solid	8015NM Prep	
880-34338-6	S3-1-101023	Total/NA	Solid	8015NM Prep	
880-34338-7	S3-2-101123	Total/NA	Solid	8015NM Prep	
MB 880-64562/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64562/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64562/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64616

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-8	S4-1-101123	Total/NA	Solid	8015B NM	64629
880-34338-9	S4-2-101123	Total/NA	Solid	8015B NM	64629
880-34338-10	S5-1-101123	Total/NA	Solid	8015B NM	64629
880-34338-11	S5-2-101123	Total/NA	Solid	8015B NM	64629
880-34338-12	S6-1-101023	Total/NA	Solid	8015B NM	64629
880-34338-13	S6-2-101023	Total/NA	Solid	8015B NM	64629
880-34338-14	S7-1-101123	Total/NA	Solid	8015B NM	64629
880-34338-15	S7-2-101123	Total/NA	Solid	8015B NM	64629
880-34338-16	S8-1-101123	Total/NA	Solid	8015B NM	64629
880-34338-17	S8-2-101123	Total/NA	Solid	8015B NM	64629
880-34338-18	S8-3-101123	Total/NA	Solid	8015B NM	64629
880-34338-19	S8-4-101123	Total/NA	Solid	8015B NM	64629
MB 880-64629/1-A	Method Blank	Total/NA	Solid	8015B NM	64629
LCS 880-64629/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64629
LCSD 880-64629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64629
880-34338-8 MS	S4-1-101123	Total/NA	Solid	8015B NM	64629
880-34338-8 MSD	S4-1-101123	Total/NA	Solid	8015B NM	64629

Prep Batch: 64629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-8	S4-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-9	S4-2-101123	Total/NA	Solid	8015NM Prep	
880-34338-10	S5-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-11	S5-2-101123	Total/NA	Solid	8015NM Prep	
880-34338-12	S6-1-101023	Total/NA	Solid	8015NM Prep	
880-34338-13	S6-2-101023	Total/NA	Solid	8015NM Prep	
880-34338-14	S7-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-15	S7-2-101123	Total/NA	Solid	8015NM Prep	
880-34338-16	S8-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-17	S8-2-101123	Total/NA	Solid	8015NM Prep	
880-34338-18	S8-3-101123	Total/NA	Solid	8015NM Prep	
880-34338-19	S8-4-101123	Total/NA	Solid	8015NM Prep	
MB 880-64629/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64629/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

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Job ID: 880-34338-1 SDG: Lea County, NM

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142

GC Semi VOA (Continued)

Prep Batch: 64629 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-8 MS	S4-1-101123	Total/NA	Solid	8015NM Prep	
880-34338-8 MSD	S4-1-101123	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Total/NA	Solid	8015 NM	
880-34338-2	S1-2-101123	Total/NA	Solid	8015 NM	
880-34338-3	S1-3-101123	Total/NA	Solid	8015 NM	
380-34338-4	S2-1-101123	Total/NA	Solid	8015 NM	
380-34338-5	S2-2-101023	Total/NA	Solid	8015 NM	
380-34338-6	S3-1-101023	Total/NA	Solid	8015 NM	
380-34338-7	S3-2-101123	Total/NA	Solid	8015 NM	
80-34338-8	S4-1-101123	Total/NA	Solid	8015 NM	
80-34338-9	S4-2-101123	Total/NA	Solid	8015 NM	
380-34338-10	S5-1-101123	Total/NA	Solid	8015 NM	
80-34338-11	S5-2-101123	Total/NA	Solid	8015 NM	
80-34338-12	S6-1-101023	Total/NA	Solid	8015 NM	
80-34338-13	S6-2-101023	Total/NA	Solid	8015 NM	
80-34338-14	S7-1-101123	Total/NA	Solid	8015 NM	
80-34338-15	S7-2-101123	Total/NA	Solid	8015 NM	
380-34338-16	S8-1-101123	Total/NA	Solid	8015 NM	
880-34338-17	S8-2-101123	Total/NA	Solid	8015 NM	
380-34338-18	S8-3-101123	Total/NA	Solid	8015 NM	
880-34338-19	S8-4-101123	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64571

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-10	S5-1-101123	Soluble	Solid	DI Leach	
880-34338-11	S5-2-101123	Soluble	Solid	DI Leach	
880-34338-12	S6-1-101023	Soluble	Solid	DI Leach	
880-34338-13	S6-2-101023	Soluble	Solid	DI Leach	
880-34338-14	S7-1-101123	Soluble	Solid	DI Leach	
880-34338-15	S7-2-101123	Soluble	Solid	DI Leach	
880-34338-16	S8-1-101123	Soluble	Solid	DI Leach	
MB 880-64571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34338-13 MS	S6-2-101023	Soluble	Solid	DI Leach	
880-34338-13 MSD	S6-2-101023	Soluble	Solid	DI Leach	

Leach Batch: 64572

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Soluble	Solid	DI Leach	
880-34338-2	S1-2-101123	Soluble	Solid	DI Leach	
880-34338-3	S1-3-101123	Soluble	Solid	DI Leach	
880-34338-4	S2-1-101123	Soluble	Solid	DI Leach	
880-34338-5	S2-2-101023	Soluble	Solid	DI Leach	
880-34338-6	S3-1-101023	Soluble	Solid	DI Leach	
880-34338-7	S3-2-101123	Soluble	Solid	DI Leach	

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Job ID: 880-34338-1

SDG: Lea County, NM

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

HPLC/IC (Continued)

Leach Batch: 64572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34338-8	S4-1-101123	Soluble	Solid	DI Leach	
880-34338-9	S4-2-101123	Soluble	Solid	DI Leach	
880-34338-17	S8-2-101123	Soluble	Solid	DI Leach	
880-34338-18	S8-3-101123	Soluble	Solid	DI Leach	
880-34338-19	S8-4-101123	Soluble	Solid	DI Leach	
MB 880-64572/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64572/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64572/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34338-3 MS	S1-3-101123	Soluble	Solid	DI Leach	
880-34338-3 MSD	S1-3-101123	Soluble	Solid	DI Leach	

Analysis Batch: 64698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-34338-10	S5-1-101123	Soluble	Solid	300.0	64571	
880-34338-11	S5-2-101123	Soluble	Solid	300.0	64571	
880-34338-12	S6-1-101023	Soluble	Solid	300.0	64571	
880-34338-13	S6-2-101023	Soluble	Solid	300.0	64571	
880-34338-14	S7-1-101123	Soluble	Solid	300.0	64571	4
880-34338-15	S7-2-101123	Soluble	Solid	300.0	64571	
880-34338-16	S8-1-101123	Soluble	Solid	300.0	64571	
MB 880-64571/1-A	Method Blank	Soluble	Solid	300.0	64571	
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	300.0	64571	
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64571	
880-34338-13 MS	S6-2-101023	Soluble	Solid	300.0	64571	
880-34338-13 MSD	S6-2-101023	Soluble	Solid	300.0	64571	

Analysis Batch: 64702

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-34338-1	S1-1-101123	Soluble	Solid	300.0	64572
880-34338-2	S1-2-101123	Soluble	Solid	300.0	64572
880-34338-3	S1-3-101123	Soluble	Solid	300.0	64572
880-34338-4	S2-1-101123	Soluble	Solid	300.0	64572
880-34338-5	S2-2-101023	Soluble	Solid	300.0	64572
880-34338-6	S3-1-101023	Soluble	Solid	300.0	64572
880-34338-7	S3-2-101123	Soluble	Solid	300.0	64572
880-34338-8	S4-1-101123	Soluble	Solid	300.0	64572
880-34338-9	S4-2-101123	Soluble	Solid	300.0	64572
880-34338-17	S8-2-101123	Soluble	Solid	300.0	64572
880-34338-18	S8-3-101123	Soluble	Solid	300.0	64572
880-34338-19	S8-4-101123	Soluble	Solid	300.0	64572
MB 880-64572/1-A	Method Blank	Soluble	Solid	300.0	64572
LCS 880-64572/2-A	Lab Control Sample	Soluble	Solid	300.0	64572
LCSD 880-64572/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64572
880-34338-3 MS	S1-3-101123	Soluble	Solid	300.0	64572
880-34338-3 MSD	S1-3-101123	Soluble	Solid	300.0	64572

Job ID: 880-34338-1 SDG: Lea County, NM

Initial

Amount

5.02 g

5 mL

9.94 g

1 uL

4.96 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

64563

64524

64673

64660

64532

64515

64572

64702

Number

Dil

1

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: S1-1-101123 Date Collected: 10/11/23 09:10 Date Received: 10/12/23 08:58

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5030B

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-1

Analyst

EL

MNR

SM

SM

ткс

SM

AG

СН

Prepared

or Analyzed

10/12/23 13:30

10/13/23 00:08

10/13/23 00:08

10/12/23 19:01

10/12/23 10:42

10/12/23 19:01

10/12/23 14:20

10/17/23 15:30

Matrix: Solid

Lab Sample ID: 880-34338-2 Matrix: Solid

Lab Sample ID: 880-34338-3

Lab Sample ID: 880-34338-4

		-		
Date Collect	ed: 10/1	11/23 09	:20	
Date Receive	ed: 10/1	2/23 08	:58	

Client Sample ID: S1-2-101123

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64562	10/12/23 13:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/13/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 15:36	СН	EET MID

Client Sample ID: S1-3-101123 Date Collected: 10/11/23 09:30

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64562	10/12/23 13:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/13/23 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 15:41	СН	EET MID

Client Sample ID: S2-1-101123 Date Collected: 10/11/23 10:00 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 01:09	SM	EET MID

Eurofins Midland

Lab

EET MID

Matrix: Solid

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S2-1-101123 Date Collected: 10/11/23 10:00

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64660	10/13/23 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64562	10/12/23 13:28	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/13/23 00:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 15:58	СН	EET MID

Client Sample ID: S2-2-101023 Date Collected: 10/10/23 10:10 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64562	10/12/23 13:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/13/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64702	10/17/23 16:04	CH	EET MID

Client Sample ID: S3-1-101023

Date Collected: 10/10/23 15:10

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 01:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64562	10/12/23 13:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/13/23 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:21	CH	EET MID

Client Sample ID: S3-2-101123 Date Collected: 10/11/23 15:20

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 02:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 02:21	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.95 g 1 uL	10 mL 1 uL	64562 64515	10/12/23 13:28 10/13/23 02:21	TKC SM	EET MID EET MID

Eurofins Midland

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-4

Lab Sample ID: 880-34338-5

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-34338-6

Matrix: Solid

Lab Sample ID: 880-34338-7 Matrix: Solid

Job ID: 880-34338-1

SDG: Lea County, NM

Lab Sample ID: 880-34338-7

Lab Sample ID: 880-34338-8

Lab Chronicle

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S3-2-101123 Date Collected: 10/11/23 15:20 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:27	СН	EET MID

Client Sample ID: S4-1-101123 Date Collected: 10/11/23 10:50 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 02:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 17:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:32	СН	EET MID

Client Sample ID: S4-2-101123 Date Collected: 10/11/23 11:00 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 02:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 19:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 19:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:38	СН	EET MID

Client Sample ID: S5-1-101123 Date Collected: 10/11/23 11:50

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 19:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:02	СН	EET MID

Eurofins Midland

Lab Sample ID: 880-34338-9 Matrix: Solid

Lab Sample ID: 880-34338-10

Matrix: Solid

Matrix: Solid

Initial

Amount

4.96 g

5 mL

9.97 g

1 uL

5.05 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

64563

64524

64673

64660

64629

64616

64571

64698

Number

10/12/23 13:30

10/13/23 05:02

10/13/23 05:02

10/13/23 19:43

10/13/23 08:50

10/13/23 19:43

10/12/23 14:18

10/13/23 19:07

Dil

1

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: S5-2-101123 Date Collected: 10/11/23 12:00 Date Received: 10/12/23 08:58

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5030B

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-11

Matrix: Solid

EET MID

Matrix: Solid

Lab Sample ID: 880-34338-12 Matrix

Lab Sample ID: 880-34338-13

Lab Sample ID: 880-34338-14

50-12	
c: Solid	

Client Sample ID: S6-1-101023 Date Collected: 10/10/23 15:50

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 05:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 20:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 20:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:12	СН	EET MID

Client Sample ID: S6-2-101023

Date Collected: 10/10/23 16:00 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 05:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 05:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:17	СН	EET MID

Client Sample ID: S7-1-101123 Date Collected: 10/11/23 12:40 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 06:03	SM	EET MID

Eurofins Midland

Prepared or Analyzed Analyst Lab

EL

MNR

SM

SM

A.I

SM

AG

СН

Released to Imaging: 4/30/2024 1:30:17 PM

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Client Sample ID: S7-1-101123 Date Collected: 10/11/23 12:40

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64660	10/13/23 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 20:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:33	СН	EET MID

Client Sample ID: S7-2-101123 Date Collected: 10/11/23 12:50 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 06:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 21:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 21:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:38	СН	EET MID

Client Sample ID: S8-1-101123

Date Collected: 10/11/23 14:00

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 06:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 21:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 21:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 19:53	CH	EET MID

Client Sample ID: S8-2-101123 Date Collected: 10/11/23 14:10

|--|

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 07:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 21:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 21:49	SM	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-14

Lab Sample ID: 880-34338-15

Lab Sample ID: 880-34338-16

Lab Sample ID: 880-34338-17

Matrix: Solid

Matrix: Solid

Client Sample ID: S8-2-101123 Date Collected: 10/11/23 14:10 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:43	CH	EET MID

Client Sample ID: S8-3-101123 Date Collected: 10/11/23 14:20

Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 07:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 07:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 22:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:49	СН	EET MID

Client Sample ID: S8-4-101123 Date Collected: 10/11/23 14:30 Date Received: 10/12/23 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	64563	10/12/23 13:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/13/23 07:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64673	10/13/23 07:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			64660	10/13/23 22:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 22:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64572	10/12/23 14:20	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64702	10/17/23 16:55	СН	EET MID

Laboratory References:

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

Job ID: 880-34338-1 SDG: Lea County, NM

Lab Sample ID: 880-34338-17

Lab Sample ID: 880-34338-18

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-34338-19 Matrix: Solid

Accreditation/Certification Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-34338-1 SDG: Lea County, NM

Laboratory: Eurofins Midland

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

uthority	Program	Identification	Number Expira	tion Date
exas	NELAP	T104704400-	23-26 06-30-	24
The following analy	es are included in this report, but the laborate	ory is not certified by the governing author	ority This list may inclu	ide analvtes
for which the agence	v does not offer certification.			
for which the agence Analysis Method	v does not offer certification. Prep Method Mat	rix Analyte		
for which the agence	v does not offer certification.	rix Analyte		

Eurofins Midland

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Job ID: 880-34338-1 SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34338-1	S1-1-101123	Solid	10/11/23 09:10	10/12/23 08:58
880-34338-2	S1-2-101123	Solid	10/11/23 09:20	10/12/23 08:58
880-34338-3	S1-3-101123	Solid	10/11/23 09:30	10/12/23 08:58
880-34338-4	S2-1-101123	Solid	10/11/23 10:00	10/12/23 08:58
880-34338-5	S2-2-101023	Solid	10/10/23 10:10	10/12/23 08:58
880-34338-6	S3-1-101023	Solid	10/10/23 15:10	10/12/23 08:58
880-34338-7	S3-2-101123	Solid	10/11/23 15:20	10/12/23 08:58
880-34338-8	S4-1-101123	Solid	10/11/23 10:50	10/12/23 08:58
880-34338-9	S4-2-101123	Solid	10/11/23 11:00	10/12/23 08:58
880-34338-10	S5-1-101123	Solid	10/11/23 11:50	10/12/23 08:58
880-34338-11	S5-2-101123	Solid	10/11/23 12:00	10/12/23 08:58
880-34338-12	S6-1-101023	Solid	10/10/23 15:50	10/12/23 08:58
880-34338-13	S6-2-101023	Solid	10/10/23 16:00	10/12/23 08:58
880-34338-14	S7-1-101123	Solid	10/11/23 12:40	10/12/23 08:58
880-34338-15	S7-2-101123	Solid	10/11/23 12:50	10/12/23 08:58
880-34338-16	S8-1-101123	Solid	10/11/23 14:00	10/12/23 08:58
880-34338-17	S8-2-101123	Solid	10/11/23 14:10	10/12/23 08:58
880-34338-18	S8-3-101123	Solid	10/11/23 14:20	10/12/23 08:58
880-34338-19	S8-4-101123	Solid	10/11/23 14:30	10/12/23 08:58

Job ID: 880-34338-1 SDG: Lea County, NM
Released to Imaging: 4/30/2024 1:30:17 PM

Eurofins Midland							
1211 W Florida Ave Midland TX 79701 Phone (432) 704-5440	<u>c</u>	Chain of Custody Record	stody Re	ecord			
Client Information	Sampler Hea	th Boyd	Lab PM Builes	John	Carrier Tracking No(s)	(s)	
Client Contact: Justin Nixon	Phone: 575-	942-0292		E-Mail John Builes@et.eurofinsus.com	State of Origin		
Company ARCADIS US Inc		PWSID:		Ana	lysis Red	÷	Job #:
Address 1004 North Big Spring Suite 300	Due Date Requested						ode
							A - HCL N None B NaOH O AsNaO2 C Zn Acetate O AsNaO2
State, Zip TX, 79701	Compliance Project.	A Yes A No					
Phone 432-296-9547(Tel)	PO #: 30197423-03						ם אמ:
Email Justin Nixon@arcadis com	WO #:			40)			Ice DI Water
Project Name Burch Keeley #142	Project # 88001920		2004	es or			ΝΥ
sile Lea County, Nm	SSOW#:			se p			Other [.]
		Sample (C=comp.	Matrix (W=water S=solid,	d Filtered form MS/N _ORGFM_2:		al Number	
Sample Identification	Sample Date	Time G=grab)	BT=Tissue, A=Air) Mion Code:	XP		XTe	Special Instructions/Note:
51-1-101123	10/11/23 5	310 (5)	Solid	×			
51-2-101123		920 1	Solid	بر			
51-3-101123		930	Solid	n			
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52-2-10 11 23	10/10/23	9101	Solid	<u>ج</u>			
53-1-1023	10/10/23	1510	Solid	7			
520101-2-55	10/11/23	1520	Solid	x			
54-1-101123		050	Solid	$\boldsymbol{\gamma}$			
54-2-101123		100	Solid	A			
521101-1-53	×	1150 1	Solid	٦			
5-2-101123	10/10/23	× 005	Solid	3			
ant	Poison B Unknown	vn Radiological	à	Sample Disposal (A t Return To Client	Sample Disposal (A fee may be assessed if samples	samples are retaine	Archive For Months
ested I II III IV Othe				Special Instructions/QC	Requirem		
Empty Kit Relinquished by		Date		Time	Methoc	Method of Shipment.	
Reinquismed by Rod Cicque t Mushul Perling	Date/Time 化 - ル レ子	9980 /	Company Avoudts		M		23 Company
Relinquished by	Date/Time-		Company	Received by		Date/Time *	
	Date/Time [.]		Company	Received by		Date/Time [.]	Company
Custody Seals Intact. Custody Seal No ∆ Yes ∆ No				Cooler Temperature(s) °C	°C and Other Remarks.	1(3)	1.5
						1	Ver 01/16/2019

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5 6

Chain of Clietody Dec 3

13

Ver 01/16/2019							ŀ						a a di serie de la constante d
			rks.	°C and Other Remarks		Cooler Temperature(s)	Coole						A Yes A No.
Company		Date/Time				Received by	Recei	Company	Com		1 0 .	Date/Time	Relinquished by
Company	BSD	Date/Time:		((Received by	Recei	Company	Com		ы Э	Date/Time	Relinquished by
Company	56121		K	\sum		Received by	Recei	Archidis	- Com	10855	12.23	Date/Time	Reprovisional by Rodriever Miled Tubran
		Method of Shipment:	Method of		•		Time	Ti		ite	Date		Empty Kit Relinquished by
				Requirements	/QC Requ	Special Instructions/QC	Special I						Deliverable Requested 1 II III IV Other (specify)
Months	Disposal By Lab Archive For Month	d 	osal By La	Dispo	ent	Return To Client	[]. 70		ological	n Radiological	Unknown	Poison B	ant
month)	tained longer than 1	Imples are re	ssed if sa	v be asse		Sample Disposal (A	Sample					-	Possible Hazard Identification
	9777 2							Solid					
								Solid					
								Solid					
	(4) ⁵						x	Solid	X	143	X		58-4-101123
							×	Solid		1420	1		58-3-1011 23
							x	Solid		1410	54		58-2-101123
							×	Solid		1400			52-1-101123
							x	Solid		052			57-2-101123
							k	Solid		042	23	10/11	57-1- 101123
							x	Solid		600	10/10/23	10/10	56-2-101023
							R	Solid	D	1550 0	10/10/23 15	10/	56-1-101023
	X						XN	Code:	Preservation Code:	μ	Λ	V	
Special Instructions/Note							1000000	٤.			Sample Date	Samp	Sample Identification
	bal Number						CORGFM_2	Matrix Personal (W=water S=solid, D=waste/oil,	Sample M Type (v (C=comp, on	Sample (C	S		
	of co Other						alette alette Alette alette	Samp				SSOW#	Sile Cea County, NM
Y Trizma Z other (specify)								ie (Ye			120	Project # 88001920	Project Name Burch Keeley #142
V MCAA W DH 4-5	;							s or N				WO #	_{Emai} i Justin Nixon@arcadis com
	G Amchlor H Ascorbic Acid						8021B	lo)			123-03	PO# 30197423-03	Phone 432-296-9547(Tel)
	E NaHSO4									Δ Yes Δ No	Compliance Project:	Complia	State, Zip: TX 79701
N None O AsNaO2 P Na2O4S	B NaOH C Zn Acetate								- ~1			TAT Rec	City Midland
es M Hexane	Preservation Codes										Due Date Requested	Due Dat	Address. 1004 North Big Spring Suite 300
	Job.#:		sted	Requested	Analysis	_		**************************************	D	PWSID			ARCADIS US Inc
	 Page 2 of 강 2	in	State of Origin	State	òm	E-Mail. John Builes@et.eurofinsus com	iles@et.e	4	26202	141	575	Phone:	Client Contact: Justin Nixon
	I	No(s)	Carrier Tracking No(s)	Carri			John	Lab PM Builes,	Boyd	R B	Heen	Sampler	Client Information
nvironment Testing	34338						cord	dy Re	Custo	Chain of Custody Record			1211 W Florida Ave Midland TX 79701 Phone (432) 704-5440
	Loc: 880												Eurofins Midland

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Login Number: 34338 List Number: 1

Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 880-34338-1

SDG Number: Lea County, NM List Source: Eurofins Midland Received by OCD: 4/29/2024 10:53:35 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon ARCADIS US Inc 1004 North Big Spring Suite 300 Midland, Texas 79701 Generated 12/11/2023 9:50:38 PM

JOB DESCRIPTION

Burch Keeley #142

JOB NUMBER

880-36644-1

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

Page 78 of 105 30-36644-1 2

4 5 6 7 8 9 10 11 12 13 14

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Definitions/Glossary

	Definitions/Glossary		
Client: ARCA		Job ID: 880-36644-1	
-	Burch Keeley #142		2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
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.		5
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO			
Qualifier	Qualifier Description		
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.		8
HPLC/IC			
Qualifier	Qualifier Description		9
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		4
CNF	Contains No Free Liquid		1
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 POS	Negative / Absent		
	Positive / Present		
PQL PRES	Practical Quantitation Limit		
	Presumptive Quality Control		
QC	Quality Control		
RER	Relative Error Ratio (Radiochemistry)		
RL RPD	Reporting Limit or Requested Limit (Radiochemistry)		
	Relative Percent Difference, a measure of the relative difference between two points		

TEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)

- TEQ TOXICITY Equivalent Quotient (Di
- TNTC Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Job ID: 880-36644-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-36644-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 12/7/2023 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68490 and 880-68743 and analytical batch 880-68654 was outside the upper control limits.

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 880-68631 and analytical batch 880-68635 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-68635/20), (CCV 880-68635/31), (CCV 880-68635/5) and (LCSD 880-68631/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SP9-1'-120623 (880-36644-1) and SP9-2'-120623 (880-36644-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

RL

0.00202

0.00202

MDL Unit

0.000388 mg/Kg

0.000460 mg/Kg

D

Prepared

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Analyte

Benzene

Toluene

Client Sample ID: SP9-1'-120623 Date Collected: 12/06/23 10:00 Date Received: 12/07/23 11:30

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

Result Qualifier

<0.000388 U

<0.000460 U

Ethylbenzene									
	<0.000570	U	0.00202	0.000570	mg/Kg		12/09/23 16:01	12/10/23 07:13	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		12/09/23 16:01	12/10/23 07:13	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/09/23 16:01	12/10/23 07:13	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		12/09/23 16:01	12/10/23 07:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				12/09/23 16:01	12/10/23 07:13	1
1,4-Difluorobenzene (Surr)	122		70 - 130				12/09/23 16:01	12/10/23 07:13	1
	C - Total BTE	X Calcula [,]	tion						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			12/10/23 07:13	1
	esel Range (Organics ((DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.4		50.5	15.2	mg/Kg			12/08/23 18:21	1
_ Method: SW846 8015B NM - D)iesel Range	• Organics	s (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	J	50.5	15.2	mg/Kg		12/07/23 16:49		1
Diesel Range Organics (Over C10-C28)	61.6		50.5	15.2	mg/Kg		12/07/23 16:49	12/08/23 18:21	1
Oll Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		12/07/23 16:49	12/08/23 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				12/07/23 16:49	12/08/23 18:21	1
o-Terphenyl	143	S1+	70 - 130				12/07/23 16:49	12/08/23 18:21	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography ·	Soluble						
			Solubic						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Chloride	Result 11.5	Qualifier			Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/07/23 23:50	Dil Fac
	11.5	Qualifier	RL						1
Chloride Client Sample ID: SP9-2'- Date Collected: 12/06/23 10:10	11.5 120623	Qualifier	RL					12/07/23 23:50 ID: 880-36	1
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30	11.5 120623		. <u>RL</u> 4.95					12/07/23 23:50 ID: 880-36	1 644-2
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat	11.5 120623 tile Organic	Compoun	. <u>RL</u> 4.95	0.391	mg/Kg		ab Sample	12/07/23 23:50 e ID: 880-36 Matrix	1 6 644-2 :: Solid
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30	11.5 120623 tile Organic Result	Compoun Qualifier	RL 4.95	0.391	mg/Kg Unit		ab Sample	12/07/23 23:50 ID: 880-36	1 644-2
Chloride Client Sample ID: SP9-2'- Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat Analyte Benzene	11.5 120623 tile Organic Result <0.000384	Compoun Qualifier U	RL 4.95	0.391 MDL 0.000384	Unit mg/Kg		ab Sample Prepared 12/09/23 16:01	Analyzed 12/10/23 23:50	1 6644-2 :: Solid Dil Fac
Chloride Client Sample ID: SP9-2'- Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat Analyte Benzene Toluene	11.5 120623 tile Organic Result <0.000384 <0.000455	Compoun Qualifier U U	RL 4.95	0.391 MDL 0.000384 0.000455	Unit mg/Kg mg/Kg mg/Kg		ab Sample Prepared 12/09/23 16:01 12/09/23 16:01	Analyzed 12/10/23 23:50 1D: 880-36 Matrix 12/10/23 07:33 12/10/23 07:33	1 6644-2 :: Solid Dil Fac 1 1
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat Analyte Benzene Toluene Ethylbenzene	11.5 120623 tile Organic Result <0.000384 <0.000455 <0.000564	Compoun Qualifier U U U	RL 4.95	0.391 MDL 0.000384 0.000455 0.000564	Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01	Analyzed 12/10/23 23:50 1D: 880-36 Matrix 12/10/23 07:33 12/10/23 07:33 12/10/23 07:33	1 6644-2 :: Solid Dil Fac
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	11.5 120623 tile Organic Result <0.000384 <0.000455 <0.000564 <0.00101	Compoun Qualifier U U U U	RL 4.95	0.391 MDL 0.000384 0.000455 0.000564 0.00101	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01	Analyzed 12/10/23 23:50 1D: 880-36 Matrix 12/10/23 07:33 12/10/23 07:33 12/10/23 07:33 12/10/23 07:33	1 6644-2 :: Solid Dil Fac 1 1 1 1
Chloride Client Sample ID: SP9-2'-' Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30 Method: SW846 8021B - Volat Analyte Benzene Toluene Ethylbenzene	11.5 120623 tile Organic Result <0.000384 <0.000455 <0.000564	Compoun Qualifier U U U U J	RL 4.95	0.391 MDL 0.000384 0.000455 0.000564	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01 12/09/23 16:01	Analyzed 12/10/23 23:50 1D: 880-36 Matrix 12/10/23 07:33 12/10/23 07:33 12/10/23 07:33	1 6644-2 :: Solid Dil Fac

Dil Fac

1

1

Job ID: 880-36644-1

Lab Sample ID: 880-36644-1

12/09/23 16:01 12/10/23 07:13

12/09/23 16:01 12/10/23 07:13

Analyzed

Matrix: Solid

Eurofins Midland

12/09/23 16:01 12/10/23 07:33

12/09/23 16:01 12/10/23 07:33

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

70 - 130

70 - 130

110

127

1

Client Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Chloride

Client Sample ID: SP9-2'-120623 Date Collected: 12/06/23 10:10 Date Received: 12/07/23 11:30

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/10/23 07:33	1
	esel Range (Organics ((DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.4		50.0	15.0	mg/Kg			12/08/23 18:43	1
Method: SW846 8015B NM - I)iesel Range	Organics							
Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	25.7	J	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 18:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	34.7	J	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 18:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				12/07/23 16:49	12/08/23 18:43	1
o-Terphenyl	133	S1+	70 - 130				12/07/23 16:49	12/08/23 18:43	1
			Oshahla						
Method: EPA 300.0 - Anions,						_	_		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

4.98

0.393 mg/Kg

135

Eurofins Midland

Job ID: 880-36644-1

Lab Sample ID: 880-36644-2

12/08/23 00:10

1

Matrix: Solid

Surrogate Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Method: 8021B - Volatile Organic Compounds (GC) **Matrix: Solid**

			Percer	Surrogate Rec	overy (Acce	ptance Lim	ts)
		BFB1	DFBZ1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
880-36644-1	SP9-1'-120623	96	122				
880-36644-2	SP9-2'-120623	110	127				
LCS 880-68743/1-A	Lab Control Sample	104	112				
LCSD 880-68743/2-A	Lab Control Sample Dup	87	107				
MB 880-68490/5-A	Method Blank	111	141 S1+				
MB 880-68743/5-A	Method Blank	106	132 S1+				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid				Prep Type: Total/NA	
			Percent Surrogate I	Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-36644-1	SP9-1'-120623	131 S1+	143 S1+		13
880-36644-2	SP9-2'-120623	124	133 S1+		
LCS 880-68631/2-A	Lab Control Sample	114	129		
LCSD 880-68631/3-A	Lab Control Sample Dup	127	147 S1+		
MB 880-68631/1-A	Method Blank	178 S1+	213 S1+		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-36644-1

Prep Type: Total/NA

Lab Sample ID: MB 880-68490/5-A

QC Sample Results

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 68654								Prep Type: To Prep Batch:	
• • •	MB	MB				_			
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385			12/06/23 12:07	12/09/23 12:02	1
Toluene	<0.000456	U	0.00200	0.000456			12/06/23 12:07	12/09/23 12:02	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/06/23 12:07	12/09/23 12:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/06/23 12:07	12/09/23 12:02	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/06/23 12:07	12/09/23 12:02	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/06/23 12:07	12/09/23 12:02	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/06/23 12:07	12/09/23 12:02	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130				12/06/23 12:07	12/09/23 12:02	1
Lab Sample ID: MB 880-68 Matrix: Solid Analysis Batch: 68654	743/5-A							le ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/09/23 16:01	12/10/23 00:05	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/09/23 16:01	12/10/23 00:05	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/09/23 16:01	12/10/23 00:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/09/23 16:01	12/10/23 00:05	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/09/23 16:01	12/10/23 00:05	1

Xylenes, Total	<0.00101	U	0.00400
	MB	МВ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130

Lab Sample ID: LCS 880-68743/1-A Matrix: Solid Analysis Batch: 68654

Analysis Batch: 68654							Prep Ba	atch: 68743
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	
Toluene	0.100	0.09294		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08787		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	

0.00101 mg/Kg

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-68743/2-A Matrix: Solid			C	Client Sa	mple	ID: Lat	Control		
Analysis Batch: 68654							Prep B		
· · · · · · · · · · · · · · · · · · ·	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	7	35

Eurofins Midland

1

1

1

Dil Fac

Job ID: 880-36644-1

Client Sample ID: Method Blank

12/09/23 16:01 12/10/23 00:05

12/09/23 16:01 12/10/23 00:05

12/09/23 16:01 12/10/23 00:05

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA

Prepared

Lab Sample ID: LCSD 880-68743/2-A

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

LCSD LCSD

MB MB

%Recovery Qualifier

87

107

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

QC Sample Results

Spike

Added

0.100

0.100

0.200

0.100

Limits 70 - 130

70 - 130

LCSD LCSD

0.09148

0.07112

0.1766

0.08618

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

Matrix: Solid

Analyte

Toluene

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 68654

4-Bromofluorobenzene (Surr)

Analysis Batch: 68635

Lab Sample ID: MB 880-68631/1-A

1,4-Difluorobenzene (Surr)

Job ID: 880-36644-1

Prep Type: Total/NA

Prep Batch: 68743

RPD

2

21

20

19

Client Sample ID: Lab Control Sample Dup

D %Rec

91

71

88

86

%Rec

Limits

70 - 130

70 - 130

70 - 130

70 - 130

RPD

Limit

35

35

35

35

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Prep Batch: 68631	

С

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 08:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 08:19	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/07/23 16:49	12/08/23 08:19	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130				12/07/23 16:49	12/08/23 08:19	1
o-Terphenyl	213	S1+	70 - 130				12/07/23 16:49	12/08/23 08:19	1

Lab Sample ID: LCS 880-68631/2-A Matrix: Solid Analysis Batch: 68635

Analysis Batch: 68635							Prep E	Batch: 68631
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1111		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1070		mg/Kg		107	70 - 130	
C10-C28)								

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

Lab Sample ID: LCSD 880-68631/3-A Matrix: Solid

Analysis Batch: 68635							Prep Batch: 6863				
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics	1000	1134		mg/Kg		113	70 - 130	2	20		
(GRO)-C6-C10											
Diesel Range Organics (Over	1000	1106		mg/Kg		111	70 - 130	3	20		
C10-C28)											

QC Sample Results

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Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-36644-1

Project/Site: Burch Keeley #14	2														
Method: 8015B NM - Die	esel Rang	ge O	rganio	cs (DR	0) (0	GC) (Cor	ntinu	ied)						
Lab Sample ID: LCSD 880-6	58631/3-A							c	lient S	amp	le l	ID: Lab	Control	Sampl	e Dup
Matrix: Solid													Prep Ty		
Analysis Batch: 68635														Batch:	
· · · · · · · · · · · · · · · · · · ·			_												
	LCSD														
Surrogate	%Recovery	Qual	ifier	Limits	_										
1-Chlorooctane	127			70 - 130											
o-Terphenyl	147	S1+		70 - 130											
Method: 300.0 - Anions,	Ion Chro	oma	tograp	ohy											
Lab Sample ID: MB 880-686	614/1-A									С	lie	nt Sam	ple ID: N	lethod	Blank
Matrix: Solid													-	ype: So	
Analysis Batch: 68623														•••	
		MB	МВ												
Analyte	Re	sult	Qualifier		RL	1	MDL	Unit		D	Pr	epared	Analy	zed	Dil Fac
Chloride	<pre></pre>	.395	U		5.00	0	.395	mg/K	a			•	12/07/23		1
									0.1						
Lab Sample ID: LCS 880-68	614/2-A								CII	ent S	an		Lab Co		
Matrix: Solid													Prepi	ype: So	oluble
Analysis Batch: 68623				.				_					~ -		
				Spike		LCS					_	~-	%Rec		
Analyte				Added		Result	Qua	alifier	Unit		D .	%Rec	Limits		
Chloride				250		255.7			mg/Kg			102	90 - 110		
Lab Sample ID: LCSD 880-6	58614/3-A							c	lient S	amn	le I	ID [.] I ab	Control	Sampl	e Dun
Matrix: Solid														ype: So	
Analysis Batch: 68623													перт	ype. O	orubic
Analysis Daten. 00025				Spike		LCSD	1.09	20					%Rec		RPD
Analyte				Added		Result			Unit	1	D	%Rec	Limits	RPD	Limit
Chloride				250		254.3	Que		mg/Kg			102	90 - 110	1	20
Lab Sample ID: 880-36644-	1 MS									C	liei	nt Sam	ple ID: S		
Matrix: Solid													Prep T	ype: So	oluble
Analysis Batch: 68623															
	Sample			Spike		-	MS						%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qua	alifier			D	/01/00	Limits		
Chloride	11.5			248		273.2			mg/Kg			106	90 - 110		
Lab Sample ID: 880-36644-	1 MSD									C	lier	nt Sam	ple ID: S	P9-1'-1	20623
Matrix: Solid													Prep T		
Analysis Batch: 68623															
	Sample	Sam	ple	Spike		MSD	MSI	D					%Rec		RPD
Analyte	Result			Added		Result			Unit		D	%Rec	Limits	RPD	Limit
Chloride	11.5			248		274.4			mg/Kg			106	90 - 110		20
				2.0									20-110	5	

QC Association Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-36644-1

GC VOA

Prep Batch: 68490

ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
B 880-68490/5-A	Method Blank	Total/NA	Solid	5035	
nalysis Batch: 6865	54				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Total/NA	Solid	8021B	68743
880-36644-2	SP9-2'-120623	Total/NA	Solid	8021B	68743
MB 880-68490/5-A	Method Blank	Total/NA	Solid	8021B	68490
MB 880-68743/5-A	Method Blank	Total/NA	Solid	8021B	68743
LCS 880-68743/1-A	Lab Control Sample	Total/NA	Solid	8021B	68743
LCSD 880-68743/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68743
rep Batch: 68743 Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Total/NA	Solid	5030B	
880-36644-2	SP9-2'-120623	Total/NA	Solid	5030B	
MB 880-68743/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-68743/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-68743/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
Analysis Batch: 6884	48				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Total/NA	Solid	Total BTEX	
	SP9-2'-120623	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 68631

Lab Sample ID 880-36644-1	Client Sample ID SP9-1'-120623	Prep Type Total/NA	Matrix Solid	Method Prep Batc 8015NM Prep	h
880-36644-2	SP9-2'-120623	Total/NA	Solid	8015NM Prep	
MB 880-68631/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68631/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68631/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68635

Lab Sample ID 880-36644-1	Client Sample ID SP9-1'-120623	Prep Type Total/NA	Matrix	Method 8015B NM	Prep Batch 68631
880-36644-2	SP9-2'-120623	Total/NA	Solid	8015B NM	68631
MB 880-68631/1-A	Method Blank	Total/NA	Solid	8015B NM	68631
LCS 880-68631/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68631
LCSD 880-68631/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68631

Analysis Batch: 68820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Total/NA	Solid	8015 NM	
880-36644-2	SP9-2'-120623	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142

HPLC/IC (Continued)

Leach Batch: 68614 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-36644-2	SP9-2'-120623	Soluble	Solid	DI Leach	
MB 880-68614/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68614/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68614/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36644-1 MS	SP9-1'-120623	Soluble	Solid	DI Leach	
880-36644-1 MSD	SP9-1'-120623	Soluble	Solid	DI Leach	

Analysis Batch: 68623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36644-1	SP9-1'-120623	Soluble	Solid	300.0	68614
880-36644-2	SP9-2'-120623	Soluble	Solid	300.0	68614
MB 880-68614/1-A	Method Blank	Soluble	Solid	300.0	68614
LCS 880-68614/2-A	Lab Control Sample	Soluble	Solid	300.0	68614
LCSD 880-68614/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68614
880-36644-1 MS	SP9-1'-120623	Soluble	Solid	300.0	68614
880-36644-1 MSD	SP9-1'-120623	Soluble	Solid	300.0	68614

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Job ID: 880-36644-1

Client Sample ID: SP9-1'-120623

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: SP9-2'-120623

Date Collected: 12/06/23 10:10

Date Received: 12/07/23 11:30

Prep

Batch

5030B

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client: ARCADIS US Inc

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Project/Site: Burch Keeley #142

Date Collected: 12/06/23 10:00

Date Received: 12/07/23 11:30

Initial

Amount

4.96 g

5 mL

9.90 g

1 uL

5.05 g

Dil

1

1

1

1

1

Factor

Run

Job ID: 880-36644-1

Lab Sample ID: 880-36644-1

Analyst

EL

Prepared

or Analyzed

12/09/23 16:01

12/10/23 07:13 MNR

12/10/23 07:13 SM

12/08/23 18:21 SM

12/07/23 16:49 TKC

12/08/23 18:21 SM

12/07/23 14:59 SMC

12/07/23 23:50 CH

Batch

68743

68654

68848

68820

68631

68635

68614

68623

Number

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Matrix: Solid

Lab

EET MID

Lab Sample ID: 880-36644-2 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	68743	12/09/23 16:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68654	12/10/23 07:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68848	12/10/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			68820	12/08/23 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	68631	12/07/23 16:49	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68635	12/08/23 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68614	12/07/23 14:59	SMC	EET MID
Soluble	Analysis	300.0		1			68623	12/08/23 00:10	СН	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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Client: ARCADIS US Inc Project/Site: Burch Keel				Job ID: 880-36644-1	2
Laboratory: Eurofi Unless otherwise noted, all ar		were covered under eac	h accreditation/certification below.		
Authority	Prog	ram	Identification Number	Expiration Date	
Texas	NEL/		T104704400-23-26	06-30-24	5
0,	does not offer certificatio	, ,	for bortaned by the governing dution		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8

Method Summary

Client: ARCADIS US Inc Project/Site: Burch Keeley #142 Job ID: 880-36644-1

Method	Method Description	Protocol	Laboratory							
8021B	Volatile Organic Compounds (GC)	SW846	EET MID							
Total BTEX	TAL SOP	EET MID								
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID							
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID							
300.0	Anions, Ion Chromatography	EPA	EET MID							
5030B	Purge and Trap	SW846	EET MID							
8015NM Prep	Microextraction	SW846	EET MID							
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID							
Protocol Re	ferences:									
ASTM = A	ASTM International									
EPA = US	EPA = US Environmental Protection Agency									
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure										

Protocol References:

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: Burch Keeley #142 Job ID: 880-36644-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36644-1	SP9-1'-120623	Solid	12/06/23 10:00	12/07/23 11:30
880-36644-2	SP9-2'-120623	Solid	12/06/23 10:10	12/07/23 11:30

Δ Yes Δ No	Custody Seals Intact: Custody Seal No.	Relinquished by	Relinquished by A D	relindusted by	Empty Kit Relinquished by:	Deliverable Requested 1, 11, 11, 14, Other (specify)	ant	Baarikka Uaward Idanskiansian				510-2'-120623	510.1. 120823	54-2-120623	57-1-120623	>	Sample identification	Site: New mexico	Project Name: Burch Keeley	Email: Justin.nixon@arcadis.com	Phone: 432-296-9547	Stale, Zip: Tx, 797903	City Midland	Address: 1004 N Big Spring St. Suite 121	Company Arcadis	Client Contact: Justin Nixon	Client Information	2423 New Holland Pike Lancaster, PA 17601 Phone (717) 656-2300	Eurofins Lancaster Laboratories Env, LLC
		Date/Time: Company		Date/Time $-\frac{146923}{1013}$ HB Company:Arcadis	Date [.]		Poison B Unknown Radiological					× 1040 × ×	1 ctol	1010	12/6/23 1000 C7 S	Preserva	Sample Date Time G=grab er-mass, A-Ar	SSOW#	Project # 30197423	WO #:	PO.#	Compliance Project: A Yes A No	TAT Requested (days):	Due Date Requested:	PWSID:	Phone: 575-390-4618	Sampler Heath Boyd	Chain of Custody Record	
	Cooler Temperature(s) °C and Other Remarks:	Recolled By WWWWWW	Redenador 1 1	,Arcadis Received by OK	ime:	Special Instructions/QC Requirements.	ay oe							× *		Ground	Field Filtered Perform MS/N 300-0 80/5 / 802/	R (7 R (7 110 D	es or l FN	(0) 1-7	Ţ			1	Analysis	E-Mail: Hearth, Boyd & State of	Lab PM:	/ Record	
Ver 01/16/2019		Date Time: 1102 11 OC		Deter Targer (0) 22 - 50 Company		8/01W.0	Disposal By Lab Archive For Months	880-36644 Challi vi veri	The second of Custody				Per Justin Nixon	il neco	Hold 5-10-1' 32		Total Number Special Instructions/Note:	of con O	K-EDTA L-EDA	H - Ascontic Acid I - Ice J - DI Water	F - MeOH R - Na2S2O3 G - Ameriker S - H26O4	D - Nitric Acid P - Na2045 E - NaHSO4 Q - Na2SO3	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2	Preservation Cod	a ***	State of Origin: NM Page: 1 of 1	Carrier Tracking No(s): COC No:	אריין אוווא אין איז	See all offine

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Login Number: 36644 List Number: 1 Creator: Teel, Brianna

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	
ls 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	

14

Job Number: 880-36644-1

List Source: Eurofins Midland

.



NMOCD Correspondence

Released to Imaging: 4/30/2024 1:30:17 PM

From:	Hall, Brittany, EMNRD <brittany.hall@emnrd.nm.gov></brittany.hall@emnrd.nm.gov>
Sent:	Wednesday, April 10, 2024 8:55 AM
To:	Nixon, Justin
Cc:	Braidy Moulder; Katherine Purvis
Subject:	RE: [EXTERNAL] Burch Keely Unit #142 Incident # NHMP1415747700 Extension request

Good morning Justin,

Per 19.15.29 NMAC, an extension of time can be requested upon a showing of good cause. If a remediation plan is ready to be submitted this week, is an extension necessary?

A complete remediation plan or closure report was due August 8, 2023, approximately 8 months ago. The extension request is not approved.

This incident is out of compliance as the report was due 252 days ago. Please submit the report by 4/12/2024. Failure to submit a complete remediation plan and/or remediation closure report by 4/12/2024 is subject to compliance and enforcement penalties pursuant to 19.15.5 NMAC.

Please include a copy of this email in the report so it is documented in the project file.

Thank you, **Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Nixon, Justin <Justin.Nixon@arcadis.com>
Sent: Tuesday, April 9, 2024 2:59 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Burch Keely Unit #142 Incident # NHMP1415747700 Extension request

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

Ms. Hall,

We would like to please request a 30 day extension on the 8/2/23 submittal deadline below. We have completed the assessment and have the draft work plan for remediation ready to be submitted this week. Please let me know if you need any additional information. Incident # NHMP1415747700

Closure request denied. Incomplete report. No workplan has been approved for this site. Site needs to be remediated per 19.15.29 NMAC or complete documentation needs to be provided that remediation was completed.

Thanks,

Justin Nixon | Certified Project Manager 1 | justin.nixon@arcadis.com Arcadis | Arcadis U.S., Inc. 1004 N Big Spring Street, Suite 121 Midland TX | 79701 | USA T. +1 432 214 2972| M. +1 432 296 9547

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

QUESTIONS

Action 338467

QUESTIONS								
Operator:	OGRID:							
COG OPERATING LLC	229137							
600 W Illinois Ave	Action Number:							
Midland, TX 79701	338467							
	Action Type:							
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)							

QUESTIONS

Prerequisites							
Incident ID (n#)	nHMP1415747700						
Incident Name	NHMP1415747700 BURCH KEELY UNIT #142 @ 30-015-04388						
Incident Type	Produced Water Release						
Incident Status	Remediation Plan Received						
Incident Well	[30-015-04388] BURCH KEELY UNIT #142						

Location of Release Source

Please answer all the questions in this group.	
Site Name	BURCH KEELY UNIT #142
Date Release Discovered	05/07/2014
Surface Owner	Federal

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Crude Oil Released (bbls) Details Not answered. Cause: Corrosion | Flow Line - Injection | Produced Water | Released: 20 BBL | Recovered: Produced Water Released (bbls) Details

	15 BBL LOSI. 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 338467

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	338467
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial	Res	ponse
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The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	tlation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ated or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/29/2024

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QUESTIONS, Page 3

Action 338467

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QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	338467
	Action Type:
	[C-141] Site Char /Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 2200 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 84.4 GRO+DRO (EPA SW-846 Method 8015M) 84 4 BTEX (EPA SW-846 Method 8021B or 8260B) 0.1 (EPA SW-846 Method 8021B or 8260B) Benzene 0.1 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 07/15/2024 On what date will (or did) the final sampling or liner inspection occur 07/16/2024 On what date will (or was) the remediation complete(d) 07/20/2024 What is the estimated surface area (in square feet) that will be reclaimed 1400 What is the estimated volume (in cubic yards) that will be reclaimed 220 What is the estimated surface area (in square feet) that will be remediated 1400 What is the estimated volume (in cubic yards) that will be remediated 220 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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QUESTIONS, Page 4

Action 338467

QUESTIONS (continued)		
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 338467	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		

Remediation Plan (continued) Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) No (In Situ) Soil Vapor Extraction No (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) No (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) No (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) No Ground Water Abatement pursuant to 19.15.30 NMAC No OTHER (Non-listed remedial process) No Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Brittany Esparza Title: Environmental Technician I hereby agree and sign off to the above statement Email: brittany.Esparza@ConocoPhillips.com Date: 04/29/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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QUESTIONS, Page 5

Action 338467

QUESTIONS (continued)	
Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave Midland, TX 79701	Action Number: 338467
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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QUESTIONS, Page 6

Action 338467

QUESTIONS (continued)					
Operator: COG OPERATING LLC 600 W Illinois Ave	OGRID: 229137 Action Number:				
Midland, TX 79701	338467				
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Sampling Event Information					
Last sampling notification (C-141N) recorded	{Unavailable.}				
Demodiation Clearus Demuset					

No

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission

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CONDITIONS

Action 338467

CONDITIONS

Operator:	OGRID:		
COG OPERATING LLC	229137		
600 W Illinois Ave	Action Number:		
Midland, TX 79701	338467		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved as the area of S-2 is not vertically delineated or completely horizontally delineated. Horizontal and vertical delineation will need to be achieved during remediation excavation activities.	4/30/2024
bhall	At this time, NMOCD will not approve the reclamation only of the 700 square feet of the area of concern that includes the lease road due to the incomplete horizontal delineation. A variance request for the reseeding of the area of the lease road will need to be submitted in the closure report if the lease road is impacted by the contamination.	4/30/2024
bhall	As the site is no longer reasonably needed for production or subsequent drilling activities, the site will need to be reclaimed at the time of remediation and reseeded during the next favorable growing season. A reclamation can be submitted with the closure report or after the closure report has been approved.	4/30/2024
bhall	A reclamation report will not be accepted until reclamation of the release areais complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable	4/30/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/30/2024
bhall	Subsequent to the approval of a reclamation report, a revegetation report will need to be submitted. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/30/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/30/2024