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Chevron U.S.A., Inc.

2023 Remediation Summary and Soil Closure Request Report

Old Indian Draw Unit 001
Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

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Appendix C **Approved Variance**

Appendix D **2023 Soil Remediation Photographic Log**

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1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Summary and Soil Closure Request Report (Report), on behalf of Chevron U.S.A., Inc. (Chevron), for the release site known as the Old Indian Draw Unit #001 (Site).

2 Project Summary

The Site is located approximately 8-miles southeast of the City of Carlsbad in Unit Letter J, Section 18, Township 22 South, Range 28 East. Old Indian Draw Unit #001 Site is a restored former well pad and tank battery characterized with numerous active and inactive underground utilities that transect the Site as of October 31, 2023. The Site is located on land owned by the United States Department of the Interior and administered by the Bureau of Land Management (BLM). The site location map is depicted on **Figure 1**.

Four open incident numbers are associated with the Site. While environmental records suggest limited remediation activities were conducted at the Site, the incidents were not closed prior to restoring the well pad and tank battery facility. The following Incident numbers associated with the Old Indian Draw Unit #001 Site are being assessed concurrently:

1. Incident No: NKMW1105550129 (2RP-611) – listed under Chesapeake Operating, Inc.

   On February 17, 2011, an equipment failure caused a release of approximately 70 barrels (bbls) of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 18, 2011, and assigned remediation permit number 2RP-611.
2. Incident No: NMLB1226438559 (2RP-1297) – listed under Chesapeake Operating, Inc.

   On August 20, 2012, an equipment failure caused a release of approximately 300 bbls of produced water, of which 170 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on September 10, 2012, and assigned remediation permit number 2RP-1297.
3. Incident No: NJMW1334440905 (2RP-2104) – listed under Chesapeake Operating, Inc.

   On December 2, 2013, an equipment failure caused a release of approximately 80 bbls of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on December 6, 2013, and assigned remediation permit number 2RP-2104. This location is included in the November 2018 Ongoing Corrective Actions/Remediations Agreed Compliance Order-Releases (ACO) between Chevron and NMOCD.
4. Incident No: NAB1433953640 (2RP-2644) – listed under Chevron U.S.A. Inc.

   On October 18, 2014, a release of approximately 13 bbls of produced water and oil was reported, of which 11 bbls of produced water and oil were recovered. The Initial C-141 Form was submitted to the NMOCD on December 3, 2014, and assigned remediation permit number 2RP-2644. This location is included in the November 2018 Ongoing Corrective Actions/Remediations ACO between Chevron and NMOCD.

The four Initial C-141 Forms for this Site are included in **Appendix A**.

3 Soil and Groundwater Assessment Summary

On August 17-19, 2021, Larson & Associates, Inc. (Larson) conducted an initial assessment at the Site. During the initial assessment, soil samples were collected at depths ranging from 3 to 20 feet below ground surface (bgs) at 16 locations (S-1 through S-16) utilizing air rotary drilling methods. The collected soil samples were submitted to the laboratory for analysis of chloride; benzene, toluene, ethylbenzene, and xylenes (BTEX); and total petroleum hydrocarbons (total TPH).

Laboratory analytical results indicated BTEX and total TPH concentrations were below the applicable laboratory method detection limits (MDLs) for BTEX and total TPH constituents in each of the submitted soil samples with the exception of minor detections for TPH (C12-C28 range) at a depth of 1 foot bgs at S-2 (182 milligrams per kilogram (mg/kg)), total TPH at S-5 at 1 foot bgs (57.1 mg/kg), benzene (0.00515 mg/kg) and BTEX (0.0117 mg/kg) at S-7 at 1 foot bgs, and benzene (0.00437 mg/kg) and BTEX (0.00435 mg/kg and 0.0102 mg/kg) at S-13 at depths of 1 to 3 feet bgs. Vertical delineation in soil for BTEX and TPH constituents was achieved at all sampling locations. Analytical results indicated chloride concentrations ranged from 8.62 mg/kg in soil sample S-15 at 1-foot bgs to 13,600 mg/kg in soil sample S-8 at 10 feet bgs.

On March 8, 2022, Larson revisited the Site in an effort to further characterize chloride impacts. During the Site visit, an air rotary drill rig was utilized to install investigative soil borings proximate to 6 of the previously drilled locations characterized by soil samples that were above the NMOCD regulatory limit of 600 mg/kg for chloride (S-3, S-7, S-8, S-9, S-10, and S-12). The 6 borings were installed at depths ranging from 15 feet bgs to approximately 45 feet bgs. Soil borings S-7 and S-8 were installed in the center of the pad to approximately 45 feet bgs. Larson's assessment activities confirmed chloride impact to soil to depths of approximately 45 feet bgs in the areas characterized by soil borings S-7 and S-8, indicating potential groundwater impact from chloride. No detections for BTEX or TPH were reported in any soil samples collected from the 16 locations during this subsequent soil assessment.

Arcadis began additional soil assessment activities across the former pad area on January 23, 2023, utilizing a stainless-steel hand auger. During soil assessment activities, a resilient rock layer was encountered at depths ranging from approximately 1-foot to 2.5-feet bgs at all boring locations.

Arcadis collected 62 soil samples (G-1 through G-62) in an approximate grid pattern across the former pad area at depths ranging from approximately six inches bgs to 2 feet bgs in an effort to further characterize the horizontal extent of chloride impacts at the Site. The collected soil samples were field screened for evaluation of estimated concentrations of chloride. Select soil samples that field screened below applicable screening limits for chloride (600 mg/kg) were submitted for analytical confirmation to Eurofins/Xenco Laboratories in Midland, Texas for BTEX, total TPH and chloride analyses. The collection of soil samples from deeper intervals was precluded due to the presence of a resilient calcrete rock layer at all sample locations.

On February 13, 2023, Arcadis oversaw the installation of a temporary monitoring well at the Old Indian Draw Unit 001 Site. The temporary monitoring well was installed in the center of the pad approximately 10 feet northeast of the southern wellhead P&A marker at the Site. During the installation of the temporary monitoring well, soil samples were collected from select intervals for laboratory analysis of chloride, BTEX and total TPH. Laboratory analytical results from soil samples collected during the installation of the temporary monitoring well indicated chloride concentrations above applicable NMOCD screening criteria in soil extend to the groundwater bearing unit encountered at approximately 46 feet bgs. BTEX and total TPH concentrations were below the applicable laboratory MDLs in all soil samples analyzed for those constituents with the exception of a TPH Gasoline Range

Organic (GRO C6-C10) detection at an estimated concentration of 31.1 mg/kg at a depth of approximately 5 feet bgs.

On February 13, 2023, the temporary monitoring well was developed utilizing Environmental Protection Agency (EPA) Standard Methods. Following development activities on the temporary monitoring well, a groundwater sample was collected and submitted to the laboratory for analysis of chloride, total dissolved solids (TDS), and BTEX concentrations. Laboratory analytical results indicated chloride and TDS concentrations were above the New Mexico Environment Department Water Quality Control Commission (NMWQCC) Groundwater Standards of 250 milligrams per liter (mg/L) for chloride and 1,000 mg/L for TDS. Chloride was reported at 10,400 mg/L and TDS was reported at 15,100 mg/L. BTEX constituents were not detected in groundwater above laboratory MDLs.

One additional test trench (S-1) was installed with an excavator down to approximately 2 feet bgs (the top of the calcrete rock layer) northeast of the pad area on February 22, 2023, to further horizontal delineation of chloride impact to soil. Two soil samples were collected from S-1 at depths of 1-foot bgs and 2 feet bgs and were reported with chloride concentrations of 73.1 mg/kg and 357 mg/kg, respectively.

Evaluation of soil data collected to date confirmed horizontal delineation of the release area was accomplished in conjunction with the initial Larson soil assessment activities conducted in 2021 and 2022. Groundwater impacts will be further evaluated and an Abatement Plan per NMAC 19.15.30 is anticipated to be submitted to NMOCD for the Site.

Analytical results from the soil assessments**,** groundwater analytical results from groundwater samples collected from the temporary monitoring well, and associated laboratory analytical reports are included in the approved Variance Request in **Appendix C**.

4 Closure Criteria for Soils Impacted by a Release

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

The NMOCD classifies the Site at the most stringent regulatory limits due to the depth to groundwater confirmed at approximately 46 feet below ground surface (bgs). Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the above closure criteria applies to a site with depth to ground water less than 50 feet bgs feet.

5 Remediation Activities Summary

5.1 Soil Removal

Soil remediation activities (excavation) were performed by Arcadis and [e]TECH Environmental and Safety ([e]TECH) from May 22 through July 13, 2023. PID readings, chloride field screening utilizing Hach® test strip results, and

analytical results from the assessment activities were evaluated assuming the most stringent NMOCD closure criteria for soil prior to and during remediation activities to determine the horizontal and vertical extent of soil affected by the releases.

The release area covered an approximate 136,500 square foot area along the lease road and within the historical pad area. Excavation activities were conducted to a maximum depth of approximately 2 feet bgs within the release area due to encountering base rock at those depths. Repeated attempts to break through the resilient base rock layer utilizing an excavator equipped with a trenching bucket and “rock teeth” yielded limited results. As such, excavation activities were halted, and a Variance Request was submitted to NMOCD and BLM for approval.

5.2 Variance Request Submittal

A Variance Request was submitted to the NMOCD on April 18, 2023, requesting approval to cease further excavation activities within the release area and to subsequently line the excavated area prior to backfilling. The Variance Request was approved by NMOCD on July 14, 2023. The approved site remediation activities and associated stipulations are outlined in the Variance Request attached in **Appendix C**.

At this time, approximately 8,232 cubic yards of impacted soil were excavated, stockpiled on-site adjacent to the release area on 20 mil plastic sheeting, and covered with 20 mil plastic sheeting during remediation activities prior to disposal activities. The limits of the excavation are presented on **Figure 2**.

The stockpiled soil was disposed offsite at the Lea Land Landfill facility located at Mile Marker 64, US Highway 62/180 East, Carlsbad, New Mexico as Class 2 non-hazardous material. Copies of disposal manifests can be provided upon request.

5.3 Excavation Confirmation Sampling Activities

Following the initial termination of excavation activities, Arcadis personnel conducted excavation confirmation soil sampling activities on July 14 through August 4, 2023 for laboratory analysis to document BTEX, Total TPH, and chloride concentrations in soil within the sidewalls and base of the excavation area. These activities included collection of a total of 273 composite base samples (B-1 through B-273) and 8 composite sidewall samples (SW-1 through SW-8A). Five composite sidewall samples (SW-2, SW-3, SW-4, SW-7 and SW-8) were determined to have Total TPH concentrations greater than the applicable NMAC standards specified within 19.15.29. Additional soil was excavated from those areas and five additional composite sidewall samples (SW-2A, SW-3A, SW-4A, SW-7A and SW-8A) were collected for laboratory analyses.

All composite samples were collected at intervals to maintain an approximate 500 square foot sample space or less as approved in the attached variance found in **Appendix C**.

The soil confirmation soil samples were collected in four-ounce jars provided by Eurofins located in Midland, Texas, then placed on ice and shipped to Eurofins to be analyzed for chloride by USEPA Method 300; TPH by USEPA Method 8015M for GRO, DRO, and ORO; and BTEX by USEPA Method 8021. Analytical results are shown in **Table 1**. Sidewall composite confirmation sample locations are depicted on **Figure 2,** and excavation base composite confirmation sample locations are depicted on **Figure 3-1** through **Figure 3-9**. Laboratory analytical reports are included in **Appendix E**.

5.4 Chloride

212 of the 273 composite confirmation soil samples collected within the base of excavated area were above the NMAC reclamation limit of 600 mg/kg following remediation activities. Chloride concentrations exceeding the NMAC reclamation limit remaining in-situ ranged from 610 mg/kg to 19,700 mg/kg. No sidewall samples exceeded the reclamation limit following excavation activities.

5.5 TPH

163 of the 273 composite confirmation soil samples collected within the base of excavated area were above the NMAC reclamation limit of 100 mg/kg following remediation activities. Total TPH concentrations exceeding the NMAC reclamation limit remaining in-situ ranged from 102 mg/kg to 14,900 mg/kg. No sidewall samples exceeded the reclamation limit following excavation activities.

5.6 BTEX

Benzene concentrations were reported below the NMAC standard of 10 mg/kg at all composite confirmation soil sample locations. BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all composite confirmation soil sample locations.

5.7 Soil Amendments and Liner Installation

Following excavation activities and approval of the Variance Request from NMOCD, a layer of gypsum was applied to the base of the excavation area to inhibit the downward migration of chloride remaining in-situ. A geosynthetic liner was installed above the gypsum layer and an additional layer of gypsum was installed atop the liner to prohibit potential upward migration of chloride remaining in-situ to further support revegetation of the remediated area as approved in the Variance Request.

Photographic documentation of all excavation activities is attached in the **Appendix D**.

6 Restoration, Reclamation, and Re-Vegetation Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration closure limits had been removed laterally and excavated to the extent possible vertically down to the base rock layer, the lined excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. The excavated area within the affected pasture was topped with a topsoil similar to native surrounding pasture material and reseeded with a BLM-approved seed mixture on September 20, 2023.

7 Summary

Analytical results for remediation activities conducted in 2023 indicate that the horizontal and vertical extent of chloride, total TPH, and BTEX impact in soil above NMAC Closure Criteria for a site with depth to groundwater less than 50 feet bgs have been delineated both horizontally and vertically. Impacted soil above the applicable

NMAC Closure Criteria has been excavated from the release area horizontally and removed vertically to the base rock layer as stipulated in the approved Variance Request. Soil amendments and a geosynthetic liner were installed prior to backfilling the excavation area as stipulated in the approved Variance Request.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD regulatory guidelines stipulated in NMAC 19.15.29 and an approved Variance Request. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, Total TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil sidewall samples collected from the remediated area. Soil amendments (gypsum) and a geosynthetic liner were installed within the base of the excavation area as stipulated in the approved Variance Request.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or soil remediation activities are recommended at this time for the Site. Arcadis requests closure associated with soil impact at the Site be granted to the Old Indian Draw Unit #001 Site for Incident ID number's NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644). The Final C-141 Form is included as **Appendix B.**

Tables

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Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-001	2	07/14/2023	B-1-S-2'-20230714	In-Situ	<0.000394	<0.000467	<0.000579	<0.00103	0.000369J	<0.00103	<0.00103	<15.4	19.4J	<15.4	19.4J	**754F1**
B-002	2	07/14/2023	B-2-S-2'-20230714	In-Situ	<0.000401	<0.000475	<0.000589	<0.00105	<0.000359	<0.00105	<0.00105	<15.4	65.9	29.0J	94.9	314
B-003	2	07/14/2023	B-3-S-2'-20230714	In-Situ	<0.000408	<0.000484	<0.000599	<0.00107	<0.000365	<0.00107	<0.00107	<15.7	20.8J	<15.7	20.8J	**696**
B-004	2	07/14/2023	B-4-S-2'-20230714	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.6	44.4J	16.4J	60.8	**713**
B-005	2	07/14/2023	B-5-S-2'-20230714	In-Situ	<0.000400	0.000533J	0.000649J	<0.00105	0.000575J	<0.00105	0.00176J	<15.8	204	<15.8	**204**	**872**
B-006	2	07/14/2023	B-6-S-2'-20230714	In-Situ	<0.000398	<0.000471	<0.000584	<0.00104	<0.000356	<0.00104	<0.00104	<15.3	830	<15.3	**830**	**834**
B-007	2	07/14/2023	B-7-S-2'-20230714	In-Situ	<0.000400	<0.000474	<0.000587	<0.00105	<0.000358	<0.00105	<0.00105	<15.5	106	43.5J	**150**	**1400**
B-008	2	07/14/2023	B-8-S-2'-20230714	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	0.000543J	<0.00103	<0.00103	<15.5	25.9J	<15.5	25.9J	**755**
B-009	2	07/14/2023	B-9-S-2'-20230714	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.4	32.1J	<15.4	32.1J	**3260**
B-010	2	07/14/2023	B-10-S-2'-20230714	In-Situ	<0.000393	<0.000466	0.000605J	<0.00103	0.000444J	<0.00103	0.00105J	<15.2	155	<15.2	**155**	**6780**
B-011	2	07/14/2023	B-11-S-2'-20230714	In-Situ	<0.000397	0.000948J	<0.000582	<0.00104	0.000414J	<0.00104	0.00136J	<15.4	133	<15.4	**133**	**2090F1**
B-012	2	07/14/2023	B-12-S-2'-20230714	In-Situ	<0.000395	0.000638J	<0.000579	<0.00104	<0.000353	<0.00104	<0.00104	<15.1	82.5	<15.1	82.5	**2910**
B-013	2	07/14/2023	B-13-S-2'-20230714	In-Situ	<0.000389	0.000507J	0.000612J	<0.00102	<0.000347	<0.00102	0.00112J	<15.1	185	<15.1	**185**	**912**
B-014	2	07/14/2023	B-14-S-2'-20230714	In-Situ	<0.000386	0.000712J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	<15.2	169	<15.2	**169**	**1680**
B-015	2	07/14/2023	B-15-S-2'-20230714	In-Situ	<0.000389	0.000503J	<0.000570	<0.00102	0.000369J	<0.00102	<0.00102	<15.3	243	<15.3	**243**	**1140**
B-016	2	07/14/2023	B-16-S-2'-20230714	In-Situ	<0.000393	0.000598J	<0.000576	<0.00103	0.000409J	<0.00103	<0.00103	<15.4	148	<15.4	**148**	**767**
B-017	2	07/14/2023	B-17-S-2'-20230714	In-Situ	<0.000395	<0.000467	0.000711J	<0.00104	0.000358J	<0.00104	0.00107J	<15.2	149	<15.2	**149**	412
B-018	2	07/14/2023	B-18-S-2'-20230714	In-Situ	<0.000390	<0.000462	<0.000573	<0.00102	0.000350J	<0.00102	<0.00102	<15.1	125	<15.1	**125**	533
B-019	2	07/14/2023	B-19-S-2'-20230714	In-Situ	<0.000391	<0.000463	0.000636J	<0.00103	0.000387J	<0.00103	<0.00103	<15.1	84.6	<15.1	84.6	92.0
B-020	2	07/14/2023	B-20-S-2'-20230714	In-Situ	<0.000391	<0.000463	0.000633J	<0.00103	<0.000350	<0.00103	<0.00103	<15.4	25.6J	<15.4	25.6J	185
B-021	2	07/14/2023	B-21-S-2'-20230714	In-Situ	0.000428J	0.00205	<0.000566	0.00112J	0.000458J	0.00158J	0.00406	<15.2	86.7	<15.2	86.7	465
B-022	2	07/14/2023	B-22-S-2'-20230714	In-Situ	<0.000394	0.00294	<0.000578	0.00151J	0.000443J	0.00195J	0.00489	<15.1	28.7J F1	<15.1	28.7J	282
B-023	2	07/14/2023	B-23-S-2'-20230714	In-Situ	<0.000391	0.00243	<0.000574	0.00128J	0.000475J	0.00176J	0.00419	<15.1	103	<15.1	**103**	**571**
B-024	2	07/14/2023	B-24-S-2'-20230714	In-Situ	<0.000392	0.00119J	<0.000576	<0.00103	<0.000350	<0.00103	0.00119J	<15.1	64.5	<15.1	64.5	**2100**
B-025	2	07/14/2023	B-25-S-2'-20230714	In-Situ	<0.000393	0.00208	<0.000577	<0.00103	0.000351J	<0.00103	0.00243J	<15.3	209	<15.3	**209**	**1240**
B-026	2	07/14/2023	B-26-S-2'-20230714	In-Situ	<0.000390	0.00109J	<0.000572	<0.00102	<0.000348	<0.00102	0.00109J	<15.3	269	<15.3	**269**	415
B-027	2	07/14/2023	B-27-S-2'-20230714	In-Situ	<0.000393	0.00180J	<0.000577	<0.00103	0.000369J	<0.00103	0.00217J	<15.4	157	<15.4	**157**	**3700**
B-028	2	07/14/2023	B-28-S-2'-20230714	In-Situ	0.000441J	0.00376	0.000763J	0.00216J	0.000763J	0.00292J	0.00789	<15.4	37.3J	<15.4	37.3J	**2710**
B-029	2	07/14/2023	B-29-S-2'-20230714	In-Situ	<0.000394	0.00314	<0.000579	0.00125J	0.000481J	0.00173J	0.00487	<15.3	364	<15.3	**364**	**3690**
B-030	2	07/17/2023	B-30-S-2'-20230717	In-Situ	0.000406J B	<0.000462	<0.000572	<0.00102	<0.000349	<0.00102	<0.00102	<15.3	85.7	<15.3	85.7	**1090**
B-031	2	07/17/2023	B-31-S-2'-20230717	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.4	92.5	<15.4	92.5	**610**
B-031	2	07/20/2023	B-31-S-2'-20230720	In-Situ	0.000546J	0.00216	0.000629J	0.00169J	0.000616J	0.00231J	0.00564	39.4J	289*1	31.6J	**360**	**997**
B-032	2	07/17/2023	B-32-S-2'-20230717	In-Situ	0.000553J B	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	<15.4	113	<15.4	**113**	**1090**
B-032	2	07/20/2023	B-32-S-2'-20230720	In-Situ	0.000577J	0.00138J	0.000641J	0.00155J	0.000509J	0.00206J	0.00466	20.9J	573*1	52.1	**646**	**957**
B-033	2	07/17/2023	B-33-S-2'-20230717	In-Situ	<0.000397	<0.000471	<0.000583	<0.00104	<0.000355	<0.00104	<0.00104	<15.3	178	<15.3	**178**	**2280**
B-033	2	07/20/2023	B-33-S-2'-20230720	In-Situ	0.000498J	0.000862J	<0.000570	0.00137J	0.000496J	0.00187J	0.00323J	30.0J	91.6*1	<14.9	**122**	**1450**
B-034	2	07/17/2023	B-34-S-2'-20230717	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	<15.2	227	<15.2	**227**	**1600**
B-034	2	07/20/2023	B-34-S-2'-20230720	In-Situ	0.000427J	0.00147J	0.000577J	0.00156J	0.000554J	0.00211J	0.00459	27.6J	120*1	<15.0	**148**	**631**
B-035	2	07/17/2023	B-35-S-2'-20230717	In-Situ	<0.000508	<0.000602	<0.000746	<0.00133	<0.000454	<0.00133	<0.00133	<19.9	20.1J	<19.9	20.1J	544
B-035	2	07/20/2023	B-35S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	35.9J	85.3*1	<14.9	**121**	**681**
B-036	2	07/17/2023	B-36-S-2'-20230717	In-Situ	<0.000395	<0.000468	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	<15.6	141	<15.6	**141**	**2380**

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Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-037	2	07/17/2023	B-37-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.3	249	<15.3	**249**	**1740**
B-038	2	07/17/2023	B-38-S-2'-20230717	In-Situ	<0.000435	<0.000515	<0.000638	<0.00114	<0.000389	<0.00114	<0.00114	<16.7	85.6	<16.7	85.6	**954**
B-039	2	07/17/2023	B-39-S-2'-20230717	In-Situ	0.000577J B	<0.000463	<0.000574	<0.00103	<0.000349	<0.00103	<0.00103	<15.1	187	<15.1	**187**	**1940**
B-040	2	07/17/2023	B-40-S-2'-20230717	In-Situ	0.000419J B	<0.000462	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	<15.3	266	<15.3	**266**	**1170**
B-041	2	07/17/2023	B-41S-2'-20230717	In-Situ	<0.000387	<0.000458	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	<15.1	170	<15.1	**170**	**1330**
B-042	2	07/17/2023	B-42-S-2'-20230717	In-Situ	0.000457J B	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	<15.5	91.0	<15.5	91.0	**2690**
B-043	2	07/17/2023	B-43-S-2'-20230717	In-Situ	0.000577J B	<0.000597	<0.000739	<0.00132	<0.000450	<0.00132	<0.00132	36.7J B	23.8J B	<19.9	60.5J	355
B-044	2	07/17/2023	B-44-S-2'-20230717	In-Situ	0.000403J B	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	25.9J B	60.9B	<15.3	86.8	538
B-045	2	07/17/2023	B-45-S-2'-20230717	In-Situ	0.000402J B	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	29.2J B	111B	<15.3	**140**	**1400**
B-046	2	07/17/2023	B-46-S-2'-20230717	In-Situ	0.000707J B	<0.000613	<0.000760	<0.00136	<0.000463	<0.00136	<0.00136	41.3J B	41.0J B	<20.0	82.3	407
B-047	2	07/17/2023	B-47-S-2'-20230717	In-Situ	0.000430J B	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	19.1J B	183B	<15.3	**202**	**984**
B-048	2	07/17/2023	B-48-S-2'-20230717	In-Situ	0.000397J B	<0.000463	<0.000573	<0.00103	<0.000349	<0.00103	<0.00103	25.6J B	191B	<15.3	**217**	**1450**
B-049	2	07/17/2023	B-49-S-2'-20230717	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	<15.4	174B	<15.4	**174**	**2850**
B-050	2	07/17/2023	B-50-S-2'-20230717	In-Situ	<0.000518	0.000779J	<0.000760	<0.00136	0.000833J	<0.00136	0.00161J	20.2J B	28.0J B	<20.2	48.2J	478F1
B-051	2	07/17/2023	B-51-S-2'-20230717	In-Situ	<0.000398	0.000573J	<0.000583	<0.00104	<0.000355	<0.00104	<0.00104	17.1J B	446B	<15.3	**463**	322
B-052	2	07/17/2023	B-52-S-2'-20230717	In-Situ	<0.000393	0.000710J	<0.000577	<0.00103	0.000498J	<0.00103	0.00121J	<15.4	197B	<15.4	**197**	**1330**
B-053	2	07/17/2023	B-53-S-2'-20230717	In-Situ	<0.000393	0.000840J	0.000577J	<0.00103	<0.000351	<0.00103	0.00142J	<15.4	91.1B	<15.4	91.1	**1020**
B-054	2	07/17/2023	B-54-S-2'-20230717	In-Situ	<0.000400	<0.000473	<0.000586	<0.00105	<0.000357	<0.00105	<0.00105	46.1J B	82.1B	<15.3	**128**	**1160**
B-055	2	07/17/2023	B-55-S-2'-20230717	In-Situ	<0.000390	0.000742J	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	21.5J B	153B	<15.1	**175**	**1540**
B-056	2	07/17/2023	B-56-S-2'-20230717	In-Situ	<0.000385	0.000963J	<0.000565	<0.00101	0.000426J	<0.00101	0.00139J	44.3J B	210B	<15.1	**254**	**698**
B-057	2	07/17/2023	B-57-S-2'-20230717	In-Situ	<0.000488	0.000698J	<0.000716	<0.00128	<0.000436	<0.00128	<0.00128	26.1J B	43.4J B	<18.7	69.5	243
B-058	2	07/17/2023	B-58-S-2'-20230717	In-Situ	0.0766J	0.0952J	<0.0615	<0.110	<0.0374	<0.110	0.172J	1890J B	13000B	<1640	**14900**	**58400**
B-059	2	07/17/2023	B-59-S-2'-20230717	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000349	<0.00103	<0.00103	20.1J B	68.3B	<15.3	88.4	504
B-060	2	07/17/2023	B-60-S-2'-20230717	In-Situ	<0.000390	0.000866J	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	20.2J B	47.3J B	<15.3	67.5	**764F1**
B-061	2	07/17/2023	B-61-S-2'-20230717	In-Situ	0.000413J	0.000796J	<0.000575	<0.00103	0.000409J	<0.00103	0.00162J	19.0J B	91.2B	<15.3	**110**	**636**
B-062	2	07/17/2023	B-62-S-2'-20230717	In-Situ	<0.000388	0.00104J	<0.000569	<0.00102	<0.000346	<0.00102	0.00104J	25.3J B	125B	<15.2	**150**	**1840**
B-063	2	07/17/2023	B-63-S-2'-20230717	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	25.8J	322	44.0J	**392**	**1160**
B-064	2	07/17/2023	B-64-S-2'-20230717	In-Situ	<0.000395	0.000722J	<0.000580	<0.00104	<0.000353	<0.00104	<0.00104	25.5J	352	46.3J	**424**	**1940**
B-065	2	07/17/2023	B-65-S-2'-20230717	In-Situ	<0.000393	0.000895J	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.3	177	<15.3	**177**	**1500**
B-066	2	07/17/2023	B-66-S-2'-20230717	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	41.2J	253	28.8J	**323**	**2350**
B-067	2	07/17/2023	B-67-S-2'-20230717	In-Situ	0.000985J	0.00344	0.000890J	<0.00104	0.000605J	<0.00104	0.00592	<15.3	137	<15.3	**137**	**786**
B-068	2	07/17/2023	B-68-S-2'-20230717	In-Situ	0.00105J	0.00163J	<0.000571	<0.00102	<0.000348	<0.00102	0.00268J	44.4J	359	40.5J	**444**	549
B-069	2	07/17/2023	B-69-S-2'-20230717	In-Situ	0.00110J	0.00104J	<0.000577	<0.00103	0.000486J	<0.00103	0.00263J	26.9J F1 F2	81.9F1 F2	<15.2	**109**	**1120**
B-070	2	07/17/2023	B-70-S-2'-20230717	In-Situ	<0.000438	<0.000519	<0.000643	<0.00115	<0.000391	<0.00115	<0.00115	33.0J	156	<17.2	**189**	**2420**
B-071	2	07/17/2023	B-71-S-2'-20230717	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	<15.2	167	20.3J	**187**	**630**
B-072	2	07/17/2023	B-72-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	43.1J	204	21.9J	**269**	**906**
B-073	2	07/17/2023	B--73S-2'-20230717	In-Situ	<0.000390	<0.000461	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	<15.4	349	37.8J	**387**	**1040**
B-074	2	07/17/2023	B-74-S-2'-20230717	In-Situ	<0.000396	<0.000470	<0.000582	<0.00104	<0.000354	<0.00104	<0.00104	<15.2	63.5	<15.2	63.5	**989**
B-075	2	07/17/2023	B-75-S-2'-20230717	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	<15.2	52.4	<15.2	52.4	**2140**
B-076	2	07/19/2023	B-76-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000648J B	<0.00100	<0.000341	<0.00100	<0.00100	42.6J B	26.6J	<15.2	69.2	179
B-077	2	07/19/2023	B-77-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000671J B	<0.00102	<0.000347	<0.00102	<0.00102	<14.9	30.1J	<14.9	30.1J	**1120**

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Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-078	2	07/19/2023	B-78-S-2'-20230719	In-Situ	<0.000387	<0.000458	0.000655J B	<0.00101	<0.000345	<0.00101	<0.00101	19.0J B	35.9J	<14.9	54.9	**1270**
B-079	2	07/19/2023	B-79-S-2'-20230719	In-Situ	<0.000386	<0.000457	0.000692J B	<0.00101	<0.000345	<0.00101	<0.00101	34.9J B	30.0J	<15.1	64.9	**1360**
B-080	2	07/19/2023	B-80-S-2'-20230719	In-Situ	<0.000383	<0.000453	0.000743J B	<0.00100	<0.000342	<0.00100	<0.00100	17.1J B	65.0	<15.1	82.1	**2160**
B-081	2	07/19/2023	B-81-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000659J B	<0.00100	<0.000341	<0.00100	<0.00100	19.8J B	33.8J	<14.9	53.6	**764**
B-082	2	07/19/2023	B-82-S-2'-20230719	In-Situ	<0.000383	<0.000454	0.000719J B	<0.00101	<0.000343	<0.00101	<0.00101	36.6J B	3030	209	**3280**	**3000**
B-083	2	07/19/2023	B-83-S-2'-20230719	In-Situ	<0.000385	<0.000456	0.000667J B	<0.00101	<0.000344	<0.00101	<0.00101	26.4J B	144	<15.1	**170**	421
B-084	2	07/19/2023	B-84-S-2'-20230719	In-Situ	<0.000382	<0.000452	0.000643J B	<0.00100	<0.000341	<0.00100	<0.00100	33.2J B	38.0J	<15.1	71.2	134
B-085	2	07/19/2023	B-85-S-2'-20230719	In-Situ	<0.000387	<0.000459	0.000648J B	<0.00102	<0.000346	<0.00102	<0.00102	44.5J B	29.0J	<15.2	73.5	92.4
B-086	2	07/19/2023	B-86-S-2'-20230719	In-Situ	<0.000389	<0.000461	0.000689J B	<0.00102	<0.000347	<0.00102	<0.00102	40.2J B	1870	122	**2030**	**690F1**
B-087	2	07/19/2023	B-87-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000655J B	<0.00102	<0.000347	<0.00102	<0.00102	36.0J B	41.2J	<14.9	77.2	93.8
B-088	2	07/19/2023	B-88-S-2'-20230719	In-Situ	<0.000386	<0.000457	0.000794J B	<0.00101	<0.000345	<0.00101	<0.00101	30.2J	22.8J B	<15.0	53.0	425
B-089	2	07/19/2023	B-89-S-2'-20230719	In-Situ	<0.000384	<0.000455	0.000704J B	<0.00101	<0.000343	<0.00101	<0.00101	19.6J	19.3J B	<14.9	38.9J	132
B-090	2	07/19/2023	B-90-S-2'-20230719	In-Situ	<0.000385	<0.000456	0.000670J B	<0.00101	<0.000344	<0.00101	<0.00101	31.9J	23.5J B	<14.9	55.4	**969**
B-091	2	07/19/2023	B-91-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000652J B	<0.00100	<0.000341	<0.00100	<0.00100	32.3J	22.2J B	<15.1	54.5	302
B-092	2	07/19/2023	B-92-S-2'-20230719	In-Situ	<0.000387	<0.000458	0.000661J B	<0.00101	<0.000345	<0.00101	<0.00101	21.9J	19.1J B	<15.1	41.0J	**1250**
B-093	2	07/19/2023	B-93-S-2'-20230719	In-Situ	<0.000388	<0.000460	0.000767J B	<0.00102	<0.000347	<0.00102	<0.00102	32.6J	20.8J B	<15.2	53.4	**5930**
B-094	2	07/19/2023	B-94-S-2'-20230719	In-Situ	<0.000383	<0.000453	0.000648J B	<0.00100	<0.000342	<0.00100	<0.00100	32.8J	24.1J B	<14.9	56.9	**10300**
B-095	2	07/19/2023	B-95-S-2'-20230719	In-Situ	<0.000381	<0.000451	0.000667J B	<0.00100	<0.000341	<0.00100	<0.00100	32.5J	23.6J B	<15.0	56.1	**6360**
B-096	2	07/19/2023	B-96-S-2'-20230719	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	31.3J	79.6B	<15.1	**111**	**2140F1**
B-097	2	07/19/2023	B-97-S-2'-20230719	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	30.5J	205B	<14.9	**236**	**3140**
B-098	2	07/20/2023	B-98-S-2'-20230720	In-Situ	<0.000383	0.000512J	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	23.4J *1	22.8J	<15.1	46.2J	**370F1**
B-099	2	07/20/2023	B-99-S-2'-20230720	In-Situ	<0.000388	0.000599J	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	26.3J *1	97.4	<15.0	**124**	402
B-100	2	07/20/2023	B-100-S-2'-20230720	In-Situ	<0.000386	0.000618J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	<14.9	92.9	15.0J	**108**	**2000**
B-101	2	07/20/2023	B-101-S-2'-20230720	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	<0.000342	<0.00100	<0.00100	37.2J *1	121	17.0J	**175**	**19700**
B-102	2	07/20/2023	B-102-S-2'-20230720	In-Situ	<0.000382	0.000905J	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	20.0J *1	123	19.4J	**162**	**12000**
B-103	2	07/20/2023	B-103-S-2'-20230720	In-Situ	<0.000381	0.000484J	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	49.8J *1	52.9	<15.1	**103**	**8190**
B-104	2	07/20/2023	B-104-S-2'-20230720	In-Situ	<0.000385	0.000540J	0.000586J	<0.00101	0.000490J	<0.00101	0.00162J	31.3J *1	29.2J	<15.1	60.5	**2420**
B-105	2	07/20/2023	B-105-S-2'-20230720	In-Situ	0.000411J	0.000891J	<0.000567	<0.00101	<0.000345	<0.00101	0.00130J	18.7J *1	240	51.6	**310**	**4380**
B-106	2	07/20/2023	B-106-S-2'-20230720	In-Situ	0.000511J	0.00143J	<0.000570	<0.00102	0.000853J	<0.00102	0.00279J	47.3J *1	721	182	**950**	**2790**
B-107	2	07/20/2023	B-107-S-2'-20230720	In-Situ	<0.000388	0.000854J	<0.000570	<0.00102	0.000471J	<0.00102	0.00133J	27.7J *1	386	108	**522**	**947**
B-108	2	07/20/2023	B-108-S-2'-20230720	In-Situ	0.000568J	0.00154J	<0.000566	0.00124J	0.000760J	0.00200J	0.00411	35.3J *1	775	151	**961**	**5730**
B-109	2	07/20/2023	B-109-S-2'-20230720	In-Situ	0.000438J	0.00134J	<0.000563	0.00105J	0.000616J	0.00167J	0.00344J	37.4J *1	112	20.7J	**170**	**4980**
B-110	2	07/20/2023	B-110-S-2'-20230720	In-Situ	<0.000383	0.000581J	0.000574J	<0.00100	<0.000342	<0.00100	0.00116J	36.9J *1	147	25.0J	**209**	**6730**
B-111	2	07/20/2023	B-111-S-2'-20230720	In-Situ	<0.000384	0.00102J	<0.000564	<0.00101	0.000368J	<0.00101	0.00139J	27.4J *1	128	19.6J	**175**	**7470**
B-112	2	07/20/2023	B-112-S-2'-20230720	In-Situ	<0.000387	0.000699J	<0.000568	<0.00102	<0.000346	<0.00102	<0.00102	35.6J B	24.3J	<14.9	59.9	465
B-113	2	07/20/2023	B-113-S-2'-20230720	In-Situ	<0.000386	0.000556J	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	31.8J B	19.4J	<15.0	51.2	205
B-114	2	07/20/2023	B-114-S-2'-20230720	In-Situ	0.000608J	0.00117J	<0.000563	0.00114J	0.000906J	0.00205J	0.00382J	31.0J B	26.0J	<15.0	57.0	**14100**
B-115	2	07/20/2023	B-115-S-2'-20230720	In-Situ	<0.000381	0.00117J	<0.000559	0.00108J	0.000676J	0.00176J	0.00293J	33.1J B	46.5J	<15.1	79.6	**12600**
B-116	2	07/20/2023	B-116-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000489J	<0.00102	<0.00102	43.8J	37.1J *1	<15.1	80.9	**5250**
B-117	2	07/20/2023	B-117-S-2'-20230720	In-Situ	<0.000387	0.000745J	<0.000567	<0.00101	0.000474J	<0.00101	0.00122J	48.4J	27.2J *1	<14.9	75.6	403
B-118	2	07/20/2023	B-118-S-2'-20230720	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	30.0J	340*1	33.1J	**403**	**3450**

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Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

ARCADIS

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-119	2	07/20/2023	B-119-S-2'-20230720	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	30.3J	356*1	36.7J	**423**	**3770**
B-120	2	07/20/2023	B-120-S-2'-20230720	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	25.7J	310*1	29.1J	**365**	**13000**
B-121	2	07/20/2023	B-121-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	37.3J	180*1	18.6J	**236**	**3630**
B-122	2	07/20/2023	B-122-S-2'-20230720	In-Situ	<0.000383	<0.000453	<0.000562	0.00103J	0.000413J	0.00144J	0.00144J	41.9J	265*1	27.6J	**335**	**1960**
B-123	2	07/20/2023	B-123-S-2'-20230720	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	39.2J	288*1	28.2J	**355**	**3540**
B-124	2	07/20/2023	B-124-S-2'-20230720	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000347	<0.00102	<0.00102	47.4J	134*1	<14.9	**181**	**3160**
B-125	2	07/20/2023	B-125-S-2'-20230720	In-Situ	0.000444J	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	38.0J	326*1	43.5J	**408**	**1720**
B-126	2	07/20/2023	B-126-S-2'-20230720	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	0.000413J	<0.00100	<0.00100	27.8J	635*1	82.2	**745**	**1670**
B-127	2	07/20/2023	B-127-S-2'-20230720	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000381J	<0.00102	<0.00102	42.9J	120*1	<15.1	**163**	**1590**
B-128	2	07/20/2023	B-128-S-2'-20230720	In-Situ	<0.000386	0.000497J	<0.000566	0.00114J	0.000463J	0.00160J	0.00210J	23.7J	207*1	16.0J	**247**	**724F1**
B-129	2	07/20/2023	B-129-S-2'-20230720	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	33.1J	278*1	28.1J	**339**	**1470**
B-130	2	07/20/2023	B-130-S-2'-20230720	In-Situ	0.000425J	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	29.4J	125*1	<15.1	**154**	**1880**
B-136	2	07/21/2023	B-136-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	30.5J	194	<15.2	**225**	**4320**
B-137	2	07/21/2023	B-137-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000573	<0.00102	<0.000349	<0.00102	<0.00102	22.3J	111	<15.0	**133**	**4450**
B-138	2	07/21/2023	B-138-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	26.7J	123	<15.1	**150**	**3920**
B-139	2	07/21/2023	B-139-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000574	<0.00103	<0.000350	<0.00103	<0.00103	26.1J	96.2	<15.2	**122**	**1590**
B-140	2	07/21/2023	B-140-S-2'-20230721	In-Situ	<0.000387	<0.000458	<0.000568	<0.00101	<0.000346	<0.00101	<0.00101	28.4J	132	<15.1	**160**	**1870**
B-141	2	07/21/2023	B-141-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	45.4J	131	<15.3	**176**	**2660**
B-142	2	07/21/2023	B-142-S-2'-20230721	In-Situ	<0.000393	0.00143J	<0.000576	<0.00103	<0.000351	<0.00103	0.00143J	32.1J	129	16.3J	**177**	**1770**
B-143	2	07/21/2023	B-143-S-2'-20230721	In-Situ	<0.000374	<0.000443	<0.000549	<0.000982	<0.000335	<0.000982	<0.000982	37.7J	80.9	<14.8	**119**	**986**
B-144	2	07/21/2023	B-144-S-2'-20230721	In-Situ	<0.000420	<0.000497	<0.000616	<0.00110	<0.000375	<0.00110	<0.00110	41.3J	171	17.3J	**230**	**2220**
B-145	2	07/21/2023	B-145-S-2'-20230721	In-Situ	<0.000389	<0.000461	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	19.0J	408	45.8J	**473**	**1700**
B-146	2	07/21/2023	B-146-S-2'-20230721	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	36.6J	216	20.1J	**273**	**2760**
B-147	2	07/21/2023	B-147-S-2'-20230721	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000348	<0.00102	<0.00102	32.0J	113	16.0J	**161**	**5050**
B-148	2	07/21/2023	B-148-S-2'-20230721	In-Situ	<0.000389	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	33.9J	284	30.0J	**348**	**2510**
B-149	2	07/21/2023	B-149-S-2'-20230721	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	40.3J	186	<15.3	**226**	**2560**
B-150	2	07/21/2023	B-150-S-2'-20230721	In-Situ	<0.000392	0.00123J	<0.000575	<0.00103	<0.000350	<0.00103	0.00123J	22.5J	890	<15.4	**913**	**2170**
B-151	2	07/21/2023	B-151-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	22.5J	225	22.2J	**270**	**1950**
B-152	2	07/21/2023	B-152-S-2'-20230721	In-Situ	<0.000394	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	20.5J	95.4	<15.1	**116**	**3470**
B-153	2	07/21/2023	B-153-S-2'-20230721	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	28.7J	175	<15.0	**204**	**2870**
B-154	2	07/21/2023	B-154-S-2'-20230721	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	38.1J	123	<15.3	**161**	**3650**
B-155	2	07/21/2023	B-155-S-2'-20230721	In-Situ	<0.000389	0.00111J	<0.000572	<0.00102	<0.000348	<0.00102	0.00111J	32.1J	544	75.6	**652**	**1340**
B-156	2	07/21/2023	B-156-S-2'-20230721	In-Situ	<0.000385	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	32.4J	1880	213	**2130**	**1310**
B-157	2	07/21/2023	B-157-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	47.0J	300	37.9J	**385**	**5150**
B-158	2	07/21/2023	B-158-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000351	<0.00103	<0.00103	35.3J	458	53.5	**547**	**3170**
B-159	2	07/21/2023	B-159-S-2'-20230721	In-Situ	<0.000392	<0.000465	<0.000576	<0.00103	<0.000350	<0.00103	<0.00103	36.9J	194	18.9J	**250**	**1800**
B-160	2	07/21/2023	B-160-S-2'-20230721	In-Situ	<0.000388	<0.000459	<0.000569	<0.00102	<0.000347	<0.00102	<0.00102	40.7J	113	<15.2	**154**	**3060**
B-161	2	07/21/2023	B-161-S-2'-20230721	In-Situ	<0.000394	<0.000466	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	25.4J B	51.5J	<15.5	76.9	**7470**
B-162	2	07/21/2023	B-162-S-2'-20230721	In-Situ	<0.000392	<0.000464	<0.000575	<0.00103	<0.000350	<0.00103	<0.00103	46.1J B	51.8	<15.4	97.9	**10200**
B-163	2	07/21/2023	B-163-S-2'-20230721	In-Situ	<0.000391	<0.000463	<0.000573	<0.00102	<0.000349	<0.00102	<0.00102	47.5J B	102	<15.4	**150**	**7890**
B-164	2	07/21/2023	B-164-S-2'-20230721	In-Situ	0.000415J F1	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	18.8J B	153	17.0J	**189**	**9910**

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Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-165	2	07/21/2023	B-165-S-2'-20230721	In-Situ	<0.000393	<0.000466	<0.000577	<0.00103	<0.000352	<0.00103	<0.00103	28.9J B	169	22.6J	**221**	**3550**
B-166	2	07/21/2023	B-166-S-2'-20230721	In-Situ	<0.000390	<0.000462	<0.000572	<0.00102	<0.000348	<0.00102	<0.00102	20.6J B	105	<15.1	**126**	**2320**
B-167	2	07/24/2023	B-167-S-2'-20230724	In-Situ	<0.000386	0.000790J	<0.000566	<0.00101	0.000448J	<0.00101	0.00124J	32.2J	58.1	<15.1	90.3	**3650F1**
B-168	2	07/24/2023	B-168-S-2'-20230724	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	0.000545J	<0.00102	<0.00102	15.3J	323	55.8	**394**	**1360**
B-169	2	07/24/2023	B-169-S-2'-20230724	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000458J	<0.00102	<0.00102	<15.1	<15.1	<15.1	<15.1	378
B-170	2	07/24/2023	B-170-S-2'-20230724	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	0.000388J	<0.00101	<0.00101	15.5J	45.1J	<15.0	60.6	52.4
B-171	2	07/24/2023	B-171-S-2'-20230724	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	46.2J	143	20.6J	**210**	**5270**
B-172	2	07/24/2023	B-172-S-2'-20230724	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	24.6J	85.1	<15.1	**110**	**2450**
B-173	2	07/24/2023	B-173-S-2'-20230724	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	0.000360J	<0.00101	<0.00101	27.4J	80.2	<15.1	**108**	**1510**
B-174	2	07/24/2023	B-174-S-2'-20230724	In-Situ	<0.000385	<0.000456	<0.000565	<0.00101	<0.000344	<0.00101	<0.00101	24.9J	<15.1	<15.1	24.9J	**1750**
B-175	2	07/24/2023	B-175-S-2'-20230724	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	0.000412J	<0.00100	<0.00100	<14.9	<14.9	<14.9	<14.9	**1910**
B-176	2	07/24/2023	B-176-S-2'-20230724	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000358J	<0.00102	<0.00102	25.2J	46.0J	<14.9	71.2	**1910**
B-177	2	07/24/2023	B-177-S-2'-20230724	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.000347	<0.00102	<0.00102	15.5J	102	16.1J	**134**	**1810**
B-178	2	07/24/2023	B-178-S-2'-20230724	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	32.1J	<15.0	<15.0	32.1J	**3050**
B-179	2	07/24/2023	B-179-S-2'-20230724	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	0.000717J	<0.00101	<0.00101	39.3J	98.7	215	**353**	**2470**
B-180	2	07/24/2023	B-180-S-2'-20230724	In-Situ	0.000404J	<0.000460	<0.000570	<0.00102	0.000479J	<0.00102	<0.00102	22.5J	<15.0	<15.0	22.5J	**1940**
B-181	2	07/24/2023	B-181-S-2'-20230724	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	0.000631J	<0.00102	<0.00102	25.7J	47.6J	<15.0	73.3	**1110**
B-182	2	07/24/2023	B-182-S-2'-20230724	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	0.000435J	<0.00101	<0.00101	30.7J	75.9	<15.1	**107**	**1260**
B-183	2	07/24/2023	B-183-S-2'-20230724	In-Situ	<0.000385	<0.000456	0.000985J	0.00192J	0.000972J	0.00289J	0.00388J	30.6J	50.0J	<15.0	80.6	253
B-184	2	07/24/2023	B-184-S-2'-20230724	In-Situ	<0.000381	<0.000451	<0.000559	<0.00100	<0.000341	<0.00100	<0.00100	22.8J	55.2	<15.1	78.0	412
B-185	2	07/24/2023	B-185-S-2'-20230724	In-Situ	<0.000383	<0.000453	<0.000562	<0.00100	0.000358J	<0.00100	<0.00100	28.5J	75.0	<15.1	**104**	**946**
B-186	2	07/24/2023	B-186-S-2'-20230724	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	24.1J	132	20.3J	**176**	**2150**
B-187	2	07/24/2023	B-187-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000711J B	<0.00102	0.000426J	<0.00102	0.00114J	37.1J B	136	16.6J	**190**	**1920**
B-188	2	07/24/2023	B-188-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000677J B	<0.00102	<0.000347	<0.00102	<0.00102	33.6J B	<14.9	<14.9	33.6J	**1900**
B-189	2	07/24/2023	B-189-S-2'-20230724	In-Situ	<0.000384	<0.000455	0.000647J B	<0.00101	<0.000343	<0.00101	<0.00101	35.1J B	221	25.6J	**282**	**3930**
B-190	2	07/24/2023	B-190-S-2'-20230724	In-Situ	<0.000381	<0.000451	0.000640J B	<0.00100	<0.000341	<0.00100	<0.00100	25.0J B	<15.1	15.2J	40.2J	**3250**
B-191	2	07/24/2023	B-191-S-2'-20230724	In-Situ	<0.000383	<0.000453	0.000669J B	<0.00100	<0.000342	<0.00100	<0.00100	25.2J B	<15.0	<15.0	25.2J	513
B-192	2	07/24/2023	B-192-S-2'-20230724	In-Situ	<0.000383	0.000539J	0.000655J B	<0.00101	<0.000343	<0.00101	0.00119J	46.3J B	52.9	<15.0	99.2	**821F1**
B-193	2	07/24/2023	B-193-S-2'-20230724	In-Situ	<0.000387	<0.000459	0.000651J B	<0.00102	<0.000346	<0.00102	<0.00102	23.8J B	42.9J	<15.1	66.7	92.2
B-194	2	07/24/2023	B-194-S-2'-20230724	In-Situ	<0.000386	<0.000457	0.000951J B	<0.00101	<0.000345	<0.00101	<0.00101	<15.1	46.2J	<15.1	46.2J	**2280**
B-195	2	07/24/2023	B-195-S-2'-20230724	In-Situ	<0.000384	<0.000455	0.000659J B	<0.00101	<0.000343	<0.00101	<0.00101	47.3J B	57.7	<15.0	**105**	**3170**
B-196	2	07/24/2023	B-196-S-2'-20230724	In-Situ	<0.000388	<0.000460	0.000711J B	<0.00102	<0.000347	<0.00102	<0.00102	25.7J B	47.9J	<14.9	73.6	**5290**
B-197	2	07/24/2023	B-197-S-2'-20230724	In-Situ	<0.000381	<0.000451	0.000725J B	<0.00100	<0.000341	<0.00100	<0.00100	17.2J B	55.3	<14.9	72.5	**2700**
B-198	2	07/24/2023	B-198-S-2'-20230724	In-Situ	<0.000382	0.000460J	0.000639J B	<0.00100	<0.000341	<0.00100	0.00110J	28.8J B	49.6	<14.9	78.4	**715**
B-199	2	07/24/2023	B-199-S-2'-20230724	In-Situ	<0.000383	0.000526J	0.000684J B	<0.00101	<0.000343	<0.00101	0.00121J	30.2J B	48.1J	<15.0	78.3	336
B-200	2	07/24/2023	B-200-S-2'-20230724	In-Situ	<0.000383	<0.000453	0.000708J B	<0.00100	<0.000342	<0.00100	<0.00100	45.7J B	63.5	<15.1	**109**	**1040**
B-201	2	07/24/2023	B-201-S-2'-20230724	In-Situ	<0.000384	0.000612J	0.000673J B	<0.00101	<0.000343	<0.00101	0.00129J	43.2J B	<15.1	<15.1	43.2J	**802**
B-202	2	07/25/2023	B-202-S-2'-20230725	In-Situ	<0.000383	0.000783J F1	0.000975J B F1	<0.00100	<0.000342	<0.00100	0.00176J	27.9J	33.6J	<14.9	61.5	**790**
B-203	2	07/25/2023	B-203-S-2'-20230725	In-Situ	<0.000381	0.000869J	0.000842J B	<0.00100	<0.000341	<0.00100	0.00171J	41.1J	29.3J	<14.9	70.4	**5730**
B-204	2	07/25/2023	B-204-S-2'-20230725	In-Situ	<0.000387	<0.000459	0.000676J B	<0.00102	<0.000346	<0.00102	<0.00102	35.8J	448	34.5J	**518**	**3230**
B-205	2	07/25/2023	B-205-S-2'-20230725	In-Situ	<0.000388	0.000466J	0.000654J B	<0.00102	<0.000347	<0.00102	0.00112J	35.0J	70.4	<15.0	**105**	**2870**

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Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

ARCADIS

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-206	2	07/25/2023	B-206-S-2'-20230725	In-Situ	<0.000386	<0.000457	0.000669J B	<0.00101	<0.000345	<0.00101	<0.00101	18.8J	76.8	<15.0	95.6	**1210**
B-207	2	07/25/2023	B-207-S-2'-20230725	In-Situ	0.000403J	<0.000458	0.000658J B	<0.00101	<0.000345	<0.00101	0.00106J	22.9J	141	<15.0	**164**	**731F1**
B-208	2	07/25/2023	B-208-S-2'-20230725	In-Situ	<0.000389	0.000721J	0.000662J B	<0.00102	<0.000347	<0.00102	0.00138J	18.3J	69.9	<15.1	88.2	379
B-209	2	07/25/2023	B-209-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000708J B	<0.00101	<0.000343	<0.00101	<0.00101	18.6J	37.3J	<15.1	55.9	**2930**
B-210	2	07/25/2023	B-210-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000671J B	<0.00101	<0.000343	<0.00101	<0.00101	19.9J	155	<14.9	**175**	**1260**
B-211	2	07/25/2023	B-211-S-2'-20230725	In-Situ	<0.000389	0.000823J	0.000667J B	<0.00102	<0.000347	<0.00102	0.00149J	<15.0	170	<15.0	**170**	**1230**
B-212	2	07/25/2023	B-212-S-2'-20230725	In-Situ	<0.000385	<0.000456	0.000661J B	<0.00101	<0.000344	<0.00101	<0.00101	18.0J	77.1	<15.0	95.1	**668**
B-213	2	07/25/2023	B-213-S-2'-20230725	In-Situ	<0.000388	<0.000460	0.000652J B	<0.00102	<0.000347	<0.00102	<0.00102	46.0J	68.0	<15.1	**114**	**642**
B-214	2	07/25/2023	B-214-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000683J B	<0.00101	0.000401J	<0.00101	0.00108J	25.8J	52.5	<15.1	78.3	**1010**
B-215	2	07/25/2023	B-215-S-2'-20230725	In-Situ	<0.000382	0.000575J	0.000698J B	<0.00100	<0.000341	<0.00100	0.00127J	22.0J	72.5	<15.1	94.5	**1030**
B-216	2	07/25/2023	B-216-S-2'-20230725	In-Situ	<0.000387	<0.000459	0.000655J B	<0.00102	<0.000346	<0.00102	<0.00102	26.1J	337	<15.1	**363**	303
B-217	2	07/25/2023	B-217-S-2'-20230725	In-Situ	<0.000388	0.000550J	0.000749J B	<0.00102	<0.000347	<0.00102	0.00130J	40.5J	45.4J	<14.9	85.9	**3500F1**
B-218	2	07/25/2023	B-218-S-2'-20230725	In-Situ	<0.000381	<0.000451	0.000654J B	<0.00100	<0.000341	<0.00100	<0.00100	16.6J	53.6	<14.9	70.2	**3040**
B-219	2	07/25/2023	B-219-S-2'-20230725	In-Situ	<0.000382	<0.000452	0.000644J B	<0.00100	<0.000341	<0.00100	<0.00100	33.3J	66.9	<15.0	100	**3780**
B-220	2	07/25/2023	B-220-S-2'-20230725	In-Situ	<0.000383	<0.000453	0.000672J B	<0.00100	<0.000342	<0.00100	<0.00100	22.7J	75.1	<15.1	97.8	**1940**
B-221	2	07/25/2023	B-221-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000653J B	<0.00101	<0.000343	<0.00101	<0.00101	22.1J	87.5	<15.0	**110**	**792**
B-222	2	07/25/2023	B-222-S-2'-20230725	In-Situ	<0.000383	<0.000453	0.000767J B	<0.00100	<0.000342	<0.00100	<0.00100	18.1J	100	<15.0	**118**	**670**
B-223	2	07/25/2023	B-223-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000643J B	<0.00101	<0.000343	<0.00101	<0.00101	18.9J	65.6	<15.1	84.5	219
B-224	2	07/25/2023	B-224-S-2'-20230725	In-Situ	<0.000381	<0.000451	0.000656J B	<0.00100	<0.000341	<0.00100	<0.00100	19.0J	181	<14.9	**200**	524
B-225	2	07/25/2023	B-225-S-2'-20230725	In-Situ	<0.000383	<0.000454	0.000672J B	<0.00101	<0.000343	<0.00101	<0.00101	46.0J	252	<14.9	**298**	**1050**
B-226	2	07/25/2023	B-226-S-2'-20230725	In-Situ	<0.000384	<0.000455	0.000696J B	<0.00101	<0.000343	<0.00101	<0.00101	18.0J	203	<14.9	**221**	588
B-227	2	07/25/2023	B-227-S-2'-20230725	In-Situ	0.000439J	<0.000455	<0.000564	<0.00101	0.000432J F1	<0.00101	<0.00101	18.3J	85.7	<15.0	**104**	234
B-228	2	07/25/2023	B-228-S-2'-20230725	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	29.5J	74.0	<15.1	**104**	210
B-229	2	07/25/2023	B-229-S-2'-20230725	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	41.5J	45.7J	<15.1	87.2	**913**
B-230	2	07/25/2023	B-230-S-2'-20230725	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.000343	<0.00101	<0.00101	27.3J	35.5J	<15.0	62.8	**737**
B-231	2	07/25/2023	B-231-S-2'-20230725	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.000343	<0.00101	<0.00101	39.8J	28.1J	<14.9	67.9	**1160**
B-232	2	07/25/2023	B-232-S-2'-20230725	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	20.7J	38.2J	<15.0	58.9	386
B-233	2	07/25/2023	B-233-S-2'-20230725	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.000345	<0.00101	<0.00101	26.2J	<15.1	<15.1	26.2J	**874**
B-234	2	07/26/2023	B-234-S-2-20230726	In-Situ	<0.000383	0.00709	0.000965J	0.00220J	0.000827J	0.00303J	0.0111	17.5J	112	<14.9	**130**	123
B-235	2	07/26/2023	B-235-S-2-20230726	In-Situ	0.000498J	<0.000452	<0.000561	0.00129J	0.000483J	0.00177J	0.00227J	38.1J	320	<15.1	**358**	**1350**
B-236	2	07/26/2023	B-236-S-2-20230726	In-Situ	0.000515J	<0.000456	<0.000565	0.00160J	0.000552J	0.00215J	0.00267J	34.0J	190	<14.9	**224**	**784**
B-237	2	07/26/2023	B-237-S-2-20230726	In-Situ	0.000535J	<0.000460	0.000705J	0.00208J	0.000744J	0.00282J	0.00406	<15.0	61.5	<15.0	61.5	294
B-238	2	07/26/2023	B-238-S-2-20230726	In-Situ	0.000431J	<0.000459	<0.000568	0.00117J	0.000420J	0.00159J	0.00202J	32.8J	190	<15.0	**223**	**1610**
B-239	2	07/26/2023	B-239-S-2-20230726	In-Situ	0.000546J	<0.000455	<0.000564	0.00174J	0.000574J	0.00231J	0.00286J	24.0J	215	<15.0	**239**	**2200**
B-240	2	07/26/2023	B-240-S-2-20230726	In-Situ	0.000629J	<0.000460	0.000686J	0.00187J	0.000672J	0.00254J	0.00386J	38.7J	301	<15.1	**340**	**1570**
B-241	2	07/26/2023	B-241-S-2-20230726	In-Situ	0.000698J	<0.000457	0.000876J	0.00242J	0.000800J	0.00322J	0.00479	20.9J	25.1J	<15.1	46.0J	560
B-242	2	07/26/2023	B-242-S-2-20230726	In-Situ	0.000749J	<0.000454	0.00101J	0.00252J	0.000892J	0.00341J	0.00517	21.3J	25.9J	<15.0	47.2J	418
B-243	2	07/26/2023	B-243-S-2-20230726	In-Situ	0.000688J	<0.000456	0.000756J	0.00185J	0.000674J	0.00252J	0.00397J	21.3J	32.4J	<14.9	53.7	575
B-244	2	07/26/2023	B-244-S-2-20230726	In-Situ	0.000849J	<0.000461	0.00115J	0.00298J	0.00116J	0.00414	0.00614	17.4J	73.1	<14.9	90.5	**1650F1**
B-245	2	07/26/2023	B-245-S-2-20230726	In-Situ	0.000558J	<0.000451	0.000758J	0.00195J	0.000737J	0.00269J	0.00400	34.9J	26.9J	<15.0	61.8	**2280**
B-246	2	07/26/2023	B-246-S-2-20230726	In-Situ	<0.000384	<0.000455	0.000838J	0.00219J	0.000859J	0.00305J	0.00389J	33.7J	53.0	<15.0	86.7	**807**

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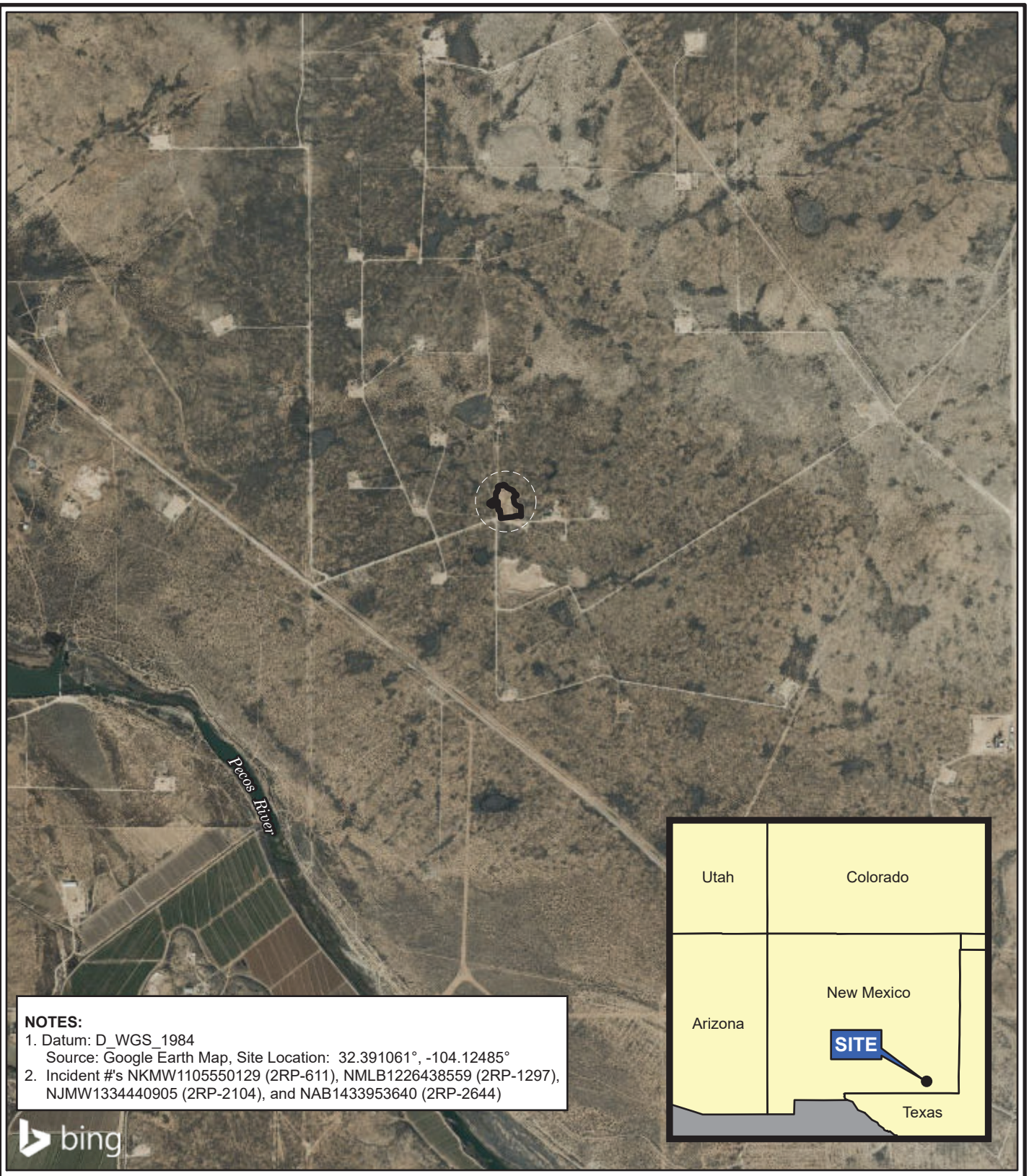
Table 1
2023 Soil Analytical Results
Old Indian Draw Unit #001
Incident No NKMW1105550129, NMLB1226438559, NJMW1334440905, and NAB1433953640
Chevron U.S.A., Inc.
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX							TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m-Xylene & p-Xylene mg/kg	o-Xylene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	--	--	--	--	--	50	--	--	--	100	600
B-247	2	07/26/2023	B-247-S-2-20230726	In-Situ	<0.000387	<0.000458	0.000705J	0.00220J	0.000759J	0.00296J	0.00366J	<15.1	18.8J F1	<15.1	18.8J	391
B-248	2	07/26/2023	B-248-S-2-20230726	In-Situ	0.000388J	<0.000457	<0.000566	0.00166J	0.000526J	0.00219J	0.00257J	26.5J	16.1J	<15.1	42.6J	275
B-249	2	07/26/2023	B-249-S-2-20230726	In-Situ	<0.000383	<0.000453	0.00102J	0.00258J	0.000933J	0.00351J	0.00453	24.1J	18.2J	<15.1	42.3J	269
B-250	2	07/26/2023	B-250-S-2-20230726	In-Situ	0.000569J	0.0119	0.00140J	0.00393J	0.00131J	0.00524	0.0191	20.3J	20.6J	<15.2	40.9J	**1390**
B-251	2	07/26/2023	B-251-S-2-20230726	In-Situ	0.000707J	<0.000460	0.000903J	0.00262J	0.000941J	0.00356J	0.00517	40.1J	129	<14.9	**169**	**879**
B-252	2	07/26/2023	B-252-S-2-20230726	In-Situ	0.000843J	0.00762	0.00154J	0.00373J	0.00133J	0.00506	0.0151	<14.9	155	<14.9	**155**	212
B-253	2	07/26/2023	B-253-S-2-20230726	In-Situ	0.000609J	<0.000454	0.000765J	0.00193J	0.000661J	0.00259J	0.00397J	30.7J	151	<14.9	**182**	381
B-254	2	08/15/2023	B-254-S-2'-20230815	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	0.000525J	<0.00102	<0.00102	37.0J	97.7	<14.9	**135**	**667F1**
B-255	2	07/26/2023	B-255-S-2-20230726	In-Situ	<0.000389	<0.000461	0.000734J B	0.00266J	<0.000347	0.00266J	0.00339J	17.3J	44.7J	<15.1	62.0	**871**
B-256	2	07/26/2023	B-256-S-2-20230726	In-Situ	<0.000381	<0.000451	0.000641J B	0.00108J	<0.000341	0.00108J	0.00172J	18.2J	63.2	<15.1	81.4	**2090**
B-257	2	07/26/2023	B-257-S-2-20230726	In-Situ	<0.000387	<0.000459	0.000664J B	0.00247J	<0.000346	0.00247J	0.00313J	15.7J	50.0J	<15.2	65.7	245
B-258	2	07/26/2023	B-258-S-2-20230726	In-Situ	<0.000383	<0.000453	0.000656J B	<0.00100	<0.000342	<0.00100	<0.00100	28.4J	17.0J	<14.9	45.4J	144
B-259	2	07/26/2023	B-259-S-2-20230726	In-Situ	<0.000384	<0.000455	0.000701J B	<0.00101	<0.000343	<0.00101	<0.00101	36.8J	20.0J	<15.0	56.8	146
B-260	2	07/27/2023	B-260-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000683J B	<0.00101	<0.000343	<0.00101	<0.00101	27.9J	391	<15.0	**419**	**900**
B-261	2	07/27/2023	B-261-S-2-20230727	In-Situ	<0.000386	<0.000457	0.000671J B	<0.00101	<0.000345	<0.00101	<0.00101	33.6J	47.6J	<15.1	81.2	**1670**
B-262	2	07/27/2023	B-262-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000660J B	<0.00102	<0.000347	<0.00102	<0.00102	34.4J	157	<15.1	**191**	**1240**
B-263	2	07/27/2023	B-263-S-2-20230727	In-Situ	<0.000387	<0.000458	0.000655J B	<0.00101	<0.000345	<0.00101	<0.00101	23.1J	28.3J	<14.9	51.4	**2140**
B-264	2	07/27/2023	B-264-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000650J B	<0.00101	<0.000343	<0.00101	<0.00101	34.8J	121	<14.9	**156**	**2430**
B-265	2	07/27/2023	B-265-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000667J B	<0.00102	<0.000347	<0.00102	<0.00102	63.6	31.9J	<14.9	95.5	599F1
B-266	2	07/27/2023	B-266-S-2-20230727	In-Situ	<0.000387	<0.000459	0.000657J B	<0.00102	<0.000346	<0.00102	<0.00102	36.8J	30.5J	<15.0	67.3	**1260**
B-267	2	07/27/2023	B-267-S-2-20230727	In-Situ	<0.000386	<0.000457	0.000752J B	<0.00101	<0.000345	<0.00101	<0.00101	32.2J	145	<15.1	**177**	**1910**
B-268	2	07/27/2023	B-268-S-2-20230727	In-Situ	<0.000383	<0.000454	0.000681J B	<0.00101	<0.000343	<0.00101	<0.00101	32.2J	104	15.1J	**151**	**1600**
B-269	2	07/27/2023	B-269-S-2-20230727	In-Situ	<0.000381	<0.000451	0.000673J B	<0.00100	<0.000341	<0.00100	<0.00100	28.3J	72.7	<14.9	**101**	**748**
B-270	2	07/27/2023	B-270-S-2-20230727	In-Situ	<0.000389	<0.000461	0.000666J B	<0.00102	<0.000347	<0.00102	<0.00102	28.0J	<15.1	<15.1	28.0J	**1270**
B-271	2	07/27/2023	B-271-S-2-20230727	In-Situ	<0.000388	<0.000460	0.000669J B	<0.00102	<0.000347	<0.00102	<0.00102	27.1J	67.6	26.9J	**122**	414
B-272	2	07/27/2023	B-722-S-2-20230727	In-Situ	<0.000384	<0.000455	0.000646J B	<0.00101	<0.000343	<0.00101	<0.00101	32.4J	451	68.7	**552**	**1650**
B-273	2	07/27/2023	B-723-S-2-20230727	In-Situ	<0.000383	<0.000453	0.000752J B	<0.00100	<0.000342	<0.00100	<0.00100	23.5J	117	15.9J	**156**	**661**
SW-1	2	07/13/2023	SW-1-S-2'-20230713	In-Situ	<0.000409	<0.000484	<0.000600	<0.00107	0.000373J	<0.00107	<0.00107	47.3J	39.9J B	<15.9	87.2	47.6
SW-2A	2	08/04/2023	SW-2A-S-2'-20230804	In-Situ	<0.000385	0.00193J	<0.000565	0.00114J *+	0.000857J *+	0.00200J *+	0.00393J	19.0J	27.4J	<15.0	46.4J	225
SW-2	2	07/13/2023	SW-2-S-2'-20230713	Removed	<0.000401	<0.000475	<0.000588	<0.00105	<0.000358	<0.00105	<0.00105	31.4J	70.5B	<15.8	**102**	466
SW-3A	2	08/04/2023	SW-3A-S-2'-20230804	In-Situ	<0.000383	0.00242	<0.000563	<0.00101	0.000450J *+	<0.00101	0.00287J	16.4J	40.9J	<14.9	57.3	186
SW-3	2	07/13/2023	SW-3-S-2'-20230713	Removed	0.000465J	0.000475J	<0.000570	<0.00102	0.000349J	<0.00102	0.00129J	37.7J	181B	<15.3	**219**	175
SW-4A	2	08/04/2023	SW-4A-S-2'-20230804	In-Situ	<0.000388	0.00129J	<0.000570	<0.00102	<0.000347	<0.00102	0.00129J	46.1J	37.3J	<15.1	83.4	88.6
SW-4	2	07/13/2023	SW-4-S-2'-20230713	Removed	<0.000392	<0.000465	<0.000576	0.00120J	0.000434J	0.00163J	0.00163J	42.7J	97.7B	<15.1	**140**	236
SW-5	2	07/13/2023	SW-5-S-2'-20230713	In-Situ	<0.000396	<0.000469	<0.000581	<0.00104	<0.000354	<0.00104	<0.00104	36.3J	32.1J B	<15.2	68.4	135
SW-6	2	07/13/2023	SW-6-S-2'-20230713	In-Situ	<0.000386	<0.000457	<0.000567	<0.00101	<0.000345	<0.00101	<0.00101	39.2J	22.9J B	<15.2	62.1	333
SW-7A	2	08/04/2023	SW-7A-S-2'-20230804	In-Situ	<0.000382	<0.000452	<0.000561	<0.00100	<0.000341	<0.00100	<0.00100	16.9J	<15.1	<15.1	16.9J	62.7
SW-7	2	07/13/2023	SW-7-S-2'-20230713	Removed	<0.000394	<0.000467	<0.000579	<0.00103	<0.000352	<0.00103	<0.00103	21.0J	81.3B	<15.3	**102**	424
SW-8A	2	08/04/2023	SW-8A-S-2'-20230804	In-Situ	0.000853J *+	<0.000460	<0.000570	<0.00102	<0.000347	<0.00102	<0.00102	44.1J B	50.3	<15.1	94.4	429
SW-8	2	07/13/2023	SW-8-S-2'-20230713	Removed	<0.000394	<0.000467	<0.000578	<0.00103	<0.000352	<0.00103	<0.00103	26.5J	128B	<15.2	**155**	262

Figures



NOTES:
1. Datum: D_WGS_1984
   Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:
Excavation

0 2,000 4,000 Feet
GRAPHIC SCALE

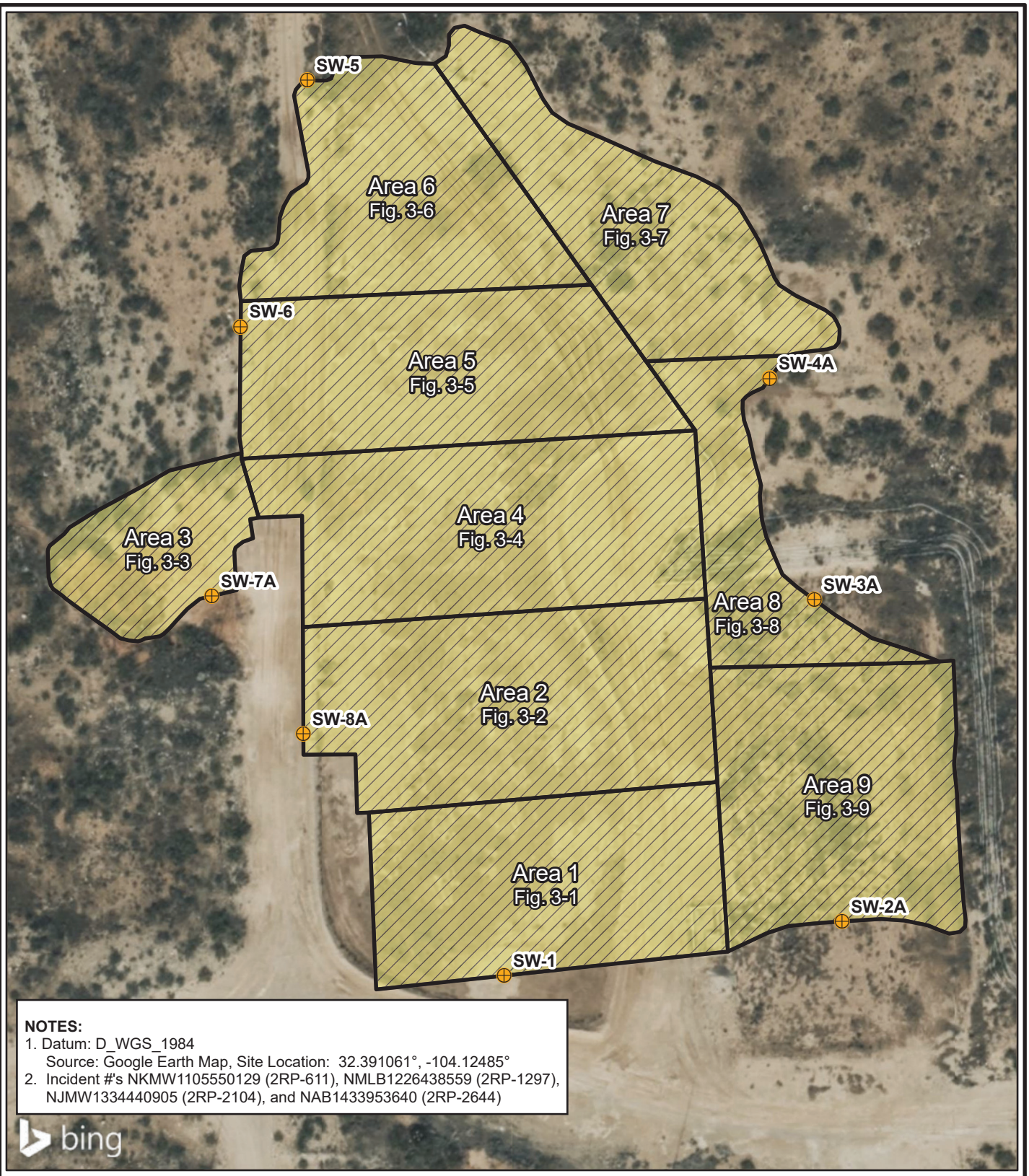
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #) T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM



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LEGEND:

- SIDEWALL SAMPLE LOCATION
- EXCAVATED AREAS

0 70 140 Feet

GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 2

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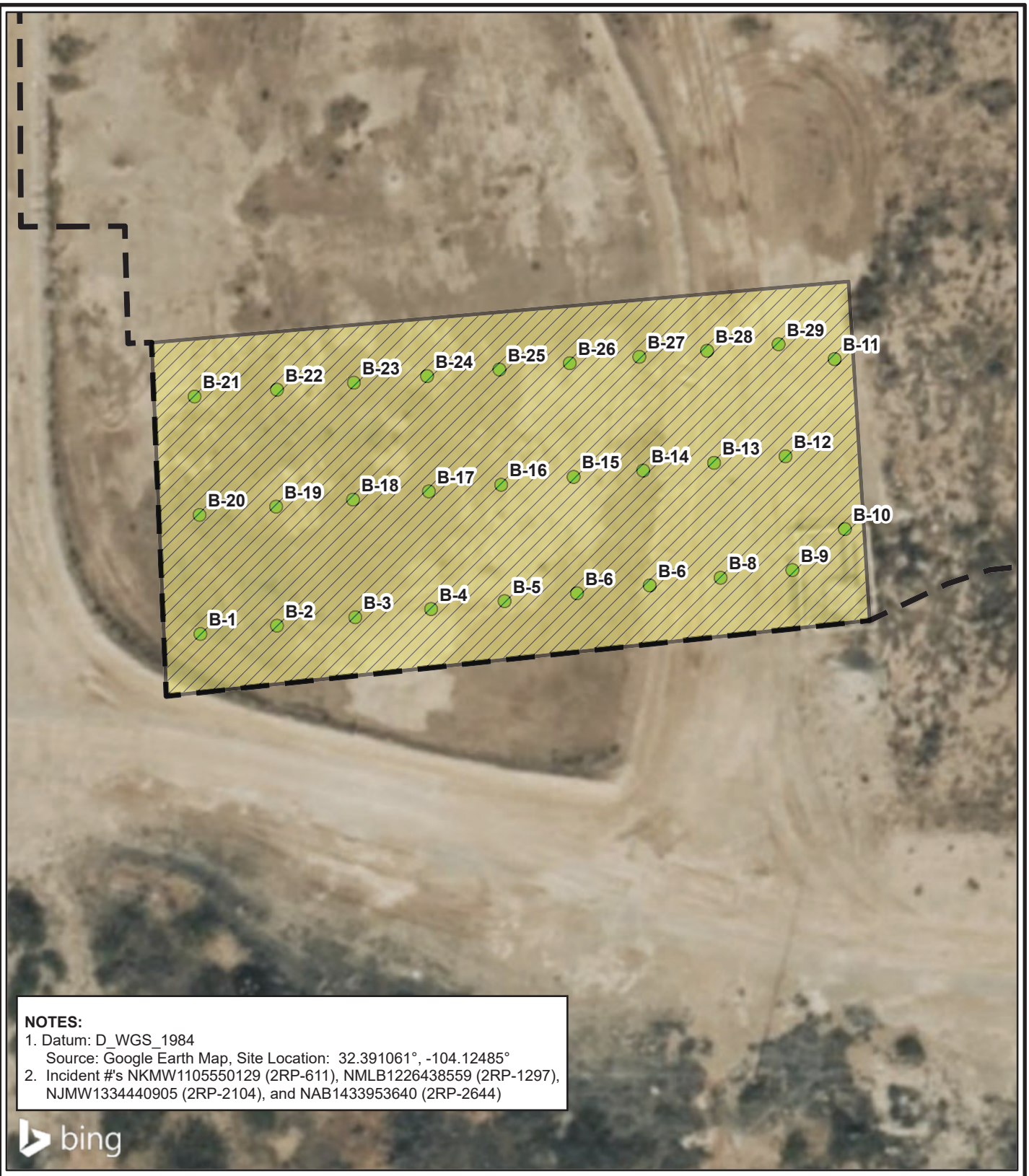

NOTES:
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2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 1
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

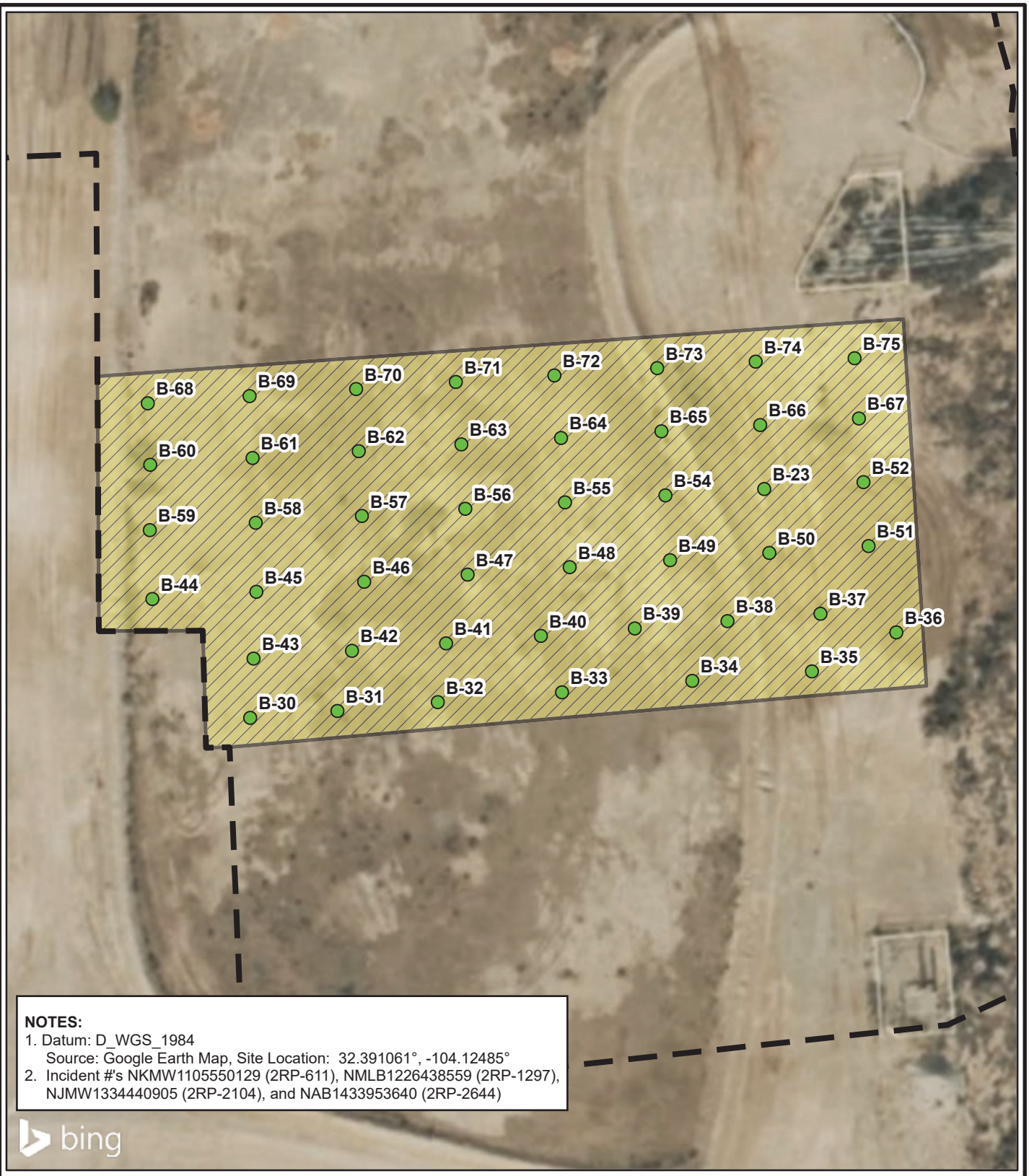
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 1

ARCADIS

FIGURE
3-1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM



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2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 2
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 2

ARCADIS

FIGURE
3-2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM

NOTES:
1. Datum: D_WGS_1984
   Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 3
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 3

ARCADIS

FIGURE
3-3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM

NOTES:
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   Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 4
- OVERALL EXCAVATION

0 35 70 Feet

GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 4

ARCADIS

FIGURE 3-4

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #) T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM

NOTES:
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2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 5
- OVERALL EXCAVATION

0 35 70 Feet
GRAPHIC SCALE

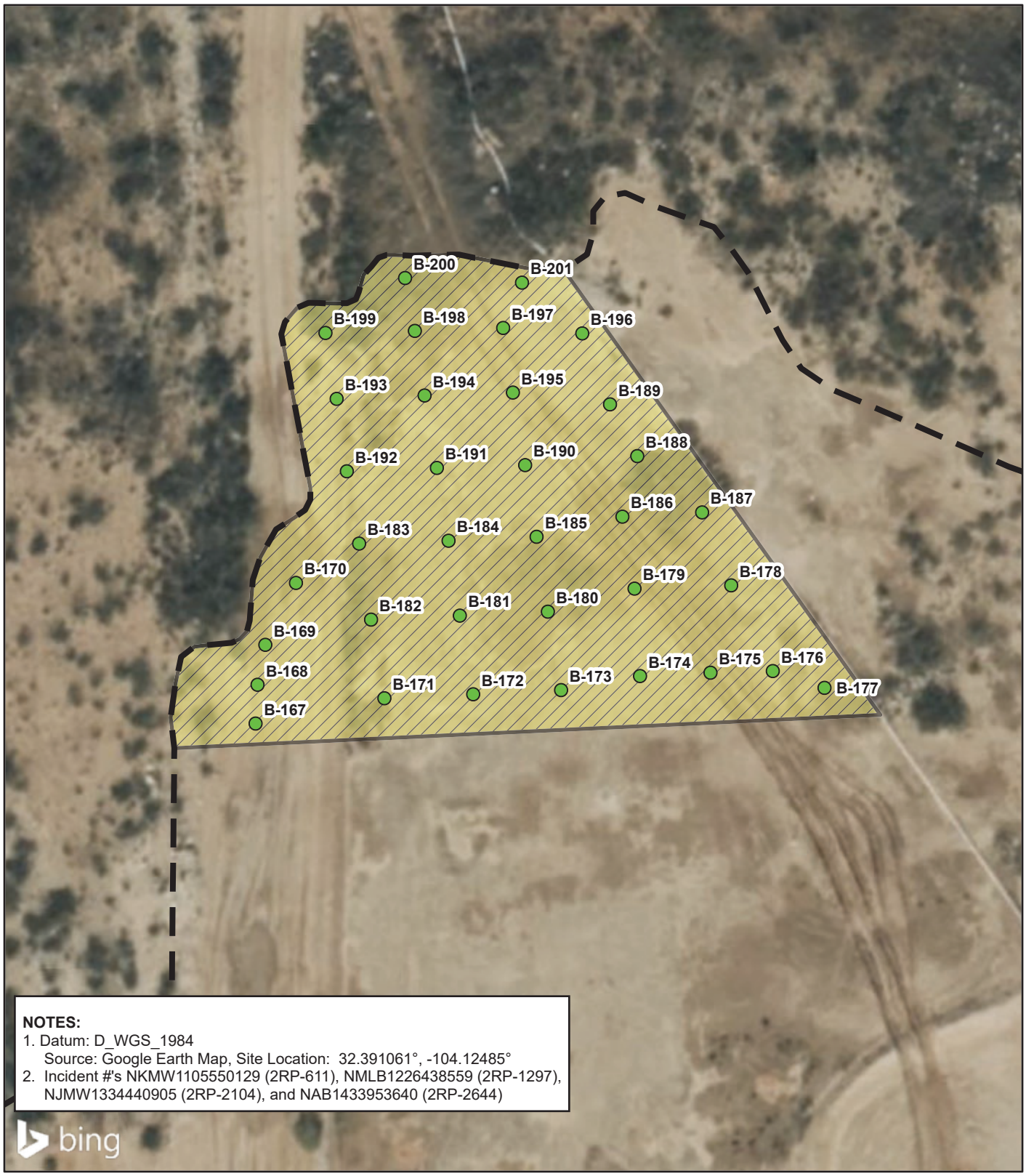
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 5

ARCADIS

FIGURE
3-5

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM



NOTES:
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   Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 6
- OVERALL EXCAVATION

0 35 70 Feet

GRAPHIC SCALE

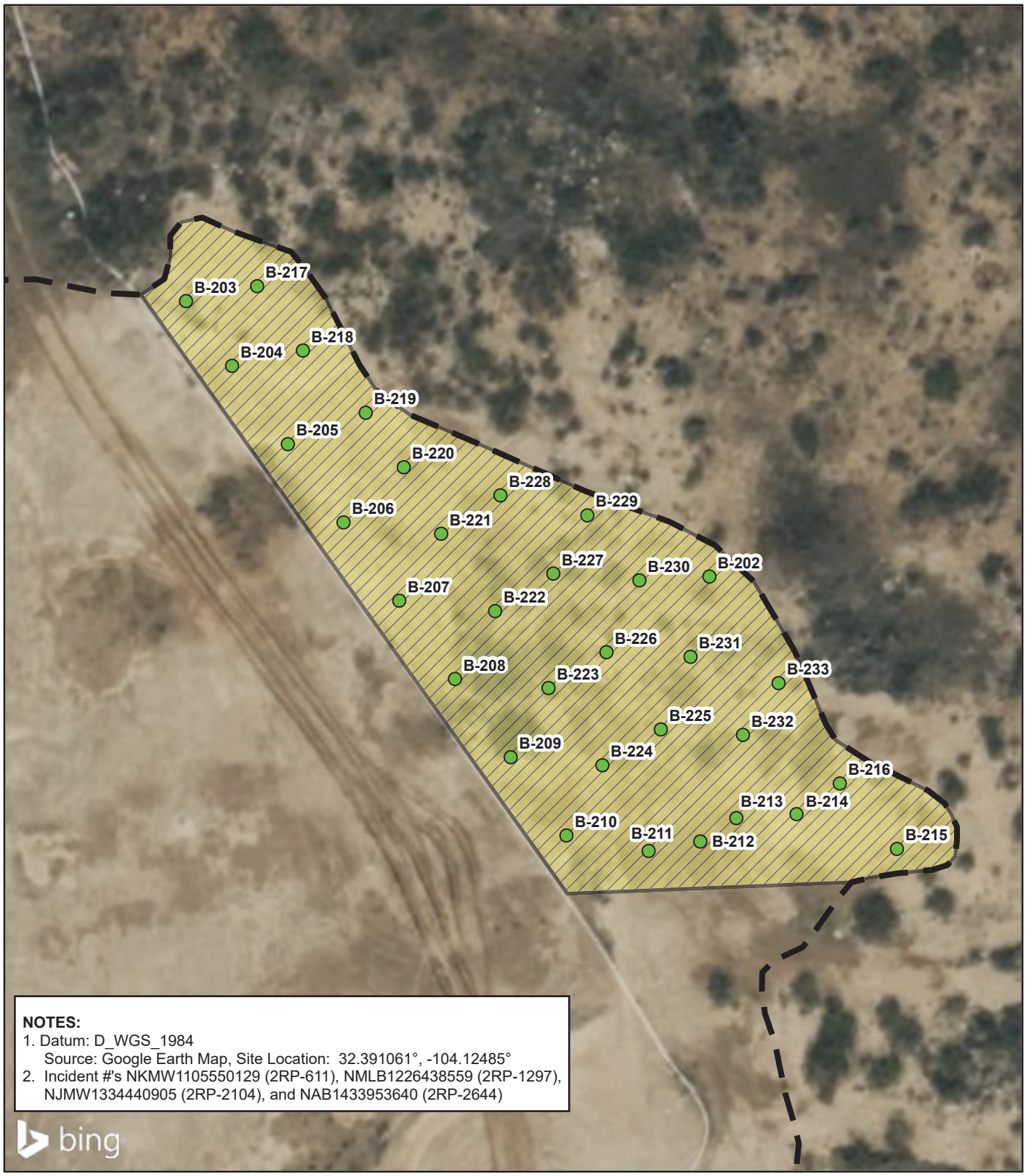
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS ~ AREA 6

ARCADIS

FIGURE 3-6

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #) T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM



NOTES:
1. Datum: D_WGS_1984
   Source: Google Earth Map, Site Location: 32.391061°, -104.12485°
2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 7
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

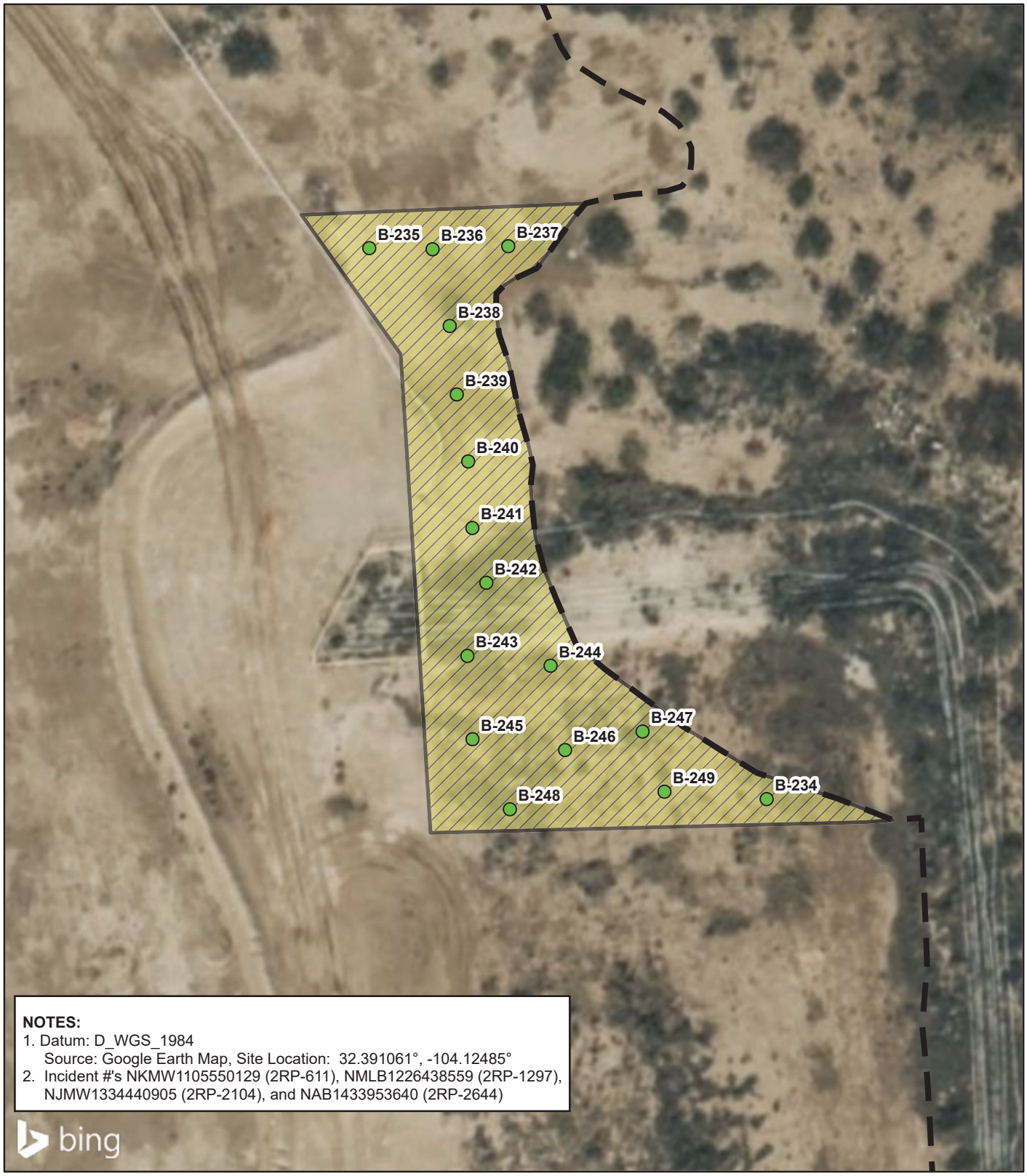
CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS~ AREA 7

ARCADIS

FIGURE
3-7

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM



NOTES:
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2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 8
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS~ AREA 8

ARCADIS

FIGURE
3-8

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM

NOTES:
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2. Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

LEGEND:

- BASE SAMPLE LOCATION
- EXCAVATED AREA 9
- OVERALL EXCAVATION

0 30 60 Feet
GRAPHIC SCALE

CHEVRON U.S.A., INC.
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS~ AREA 9

ARCADIS

FIGURE
3-9

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:_EHSS\ArcGIS_Pro\Land\Chevron\OID\OID_Confirmation\OID_Confirmation.aprx 11/1/2023 2:31 PM

Appendix A

Initial C-141 Form Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

RECEIVED
FEB 18 2011
NMOCD ARTESIA

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-20918
nKMW1105550129 147179

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company CHESAPEAKE OPERATING, INC.	Contact BRADLEY BLEVINS
Address P. O. BOX 190 HOBBS, NM 88241	Telephone No. 575-391-1462
Facility Name Old Indian Draw Unit 1	Facility Type Tank Battery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE API #30-015-20918

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	SOUTH	1980	EAST	EDDY

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 70 BBLS	Volume Recovered 60 BBLS
Source of Release Tank valve corroded and broke	2/17/11 9:00 a.m. Date and Hour of Occurrence	2/17/11 10:00 A.M. Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Bradley Blevins	Date and Hour 2/17/11 3:05 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Valve to water tank corroded and broke releasing 70 BBLS of produced water into the containment area and onto the location. Vacuum trucks were used to recover free fluids.

Describe Area Affected and Cleanup Action Taken.*
10 BBLS of produced water were lost. Upon completion of delineation and remediation activities a final C-141 and lab data will be furnished to the OCD.

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

Signature: Bradley Blevins

Printed Name: Bradley Blevins

Title: HSE Specialist

E-mail Address: Bradley.blevins@chk.com

Date: 2/18/11 Phone: 575-391-1462

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: 3/3/11 Expiration Date:

Conditions of Approval: Attached ☐

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/3/11

2RP-611

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:19 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
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****
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****

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:28 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; James A. Amos; Terry Gregston
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
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Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Monday, September 10, 2012 9:22 AM
To: Amos, James A (jamos@blm.gov); Bratcher, Mike, EMNRD
Cc: Bradley Blevins
Subject: Old Indian Draw Unit 1- Initial C-141
Attachments: 20120910091924109.pdf

Please find the attached initial C-141 for the release on the Old Indian Draw Unit. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679

Chesapeake

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Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Thursday, August 30, 2012 9:18 AM
To: Bratcher, Mike, EMNRD; Amos, James A (jamos@blm.gov); James_Amos@blm.gov
Cc: Bradley Blevins; Daniel Dominguez (ddominguezepi@gmail.com)
Subject: Old Indian Draw UT 1 CTB- Release

Mike/ Jim

Chesapeake had a release this am at 8:30 am on the Old Indian Draw UT CTB. A one inch nipple ruptured releasing produced water to the ground surface, pumpers are still investigating the amount of fluid lost and have vacuum truck in route to recover the fluid on location. Environmental plus crew has been dispatched to the release to start clean up phase, once we have all the details we will follow up with a C-141. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679

Chesapeake

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Bratcher, Mike, EMNRD

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Friday, December 06, 2013 8:48 AM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: 'Bradley Blevins'; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com
Subject: Initial C-141s, Littlefield Federal SWD #1 and Old Indian Draw CTB
Attachments: Initial C-141, Littlefield Federal SWD #1.pdf; Initial C-141, Old Indian Draw CTB.pdf

Attached are the initial C-141s for leaks that occurred at the Littlefield Federal SWD #1 on 12/01/2013 and the Old Indian Draw CTB on 12/02/2013 in Eddy County, NM. Receipt notification via email is greatly appreciated.

Kathy Purvis
BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

Bratcher, Mike, EMNRD

From: Blevins, Bradley G <Bradley.Blevins@chevron.com>
Sent: Monday, December 02, 2013 2:56 PM
To: Bratcher, Mike, EMNRD; 'Amos, James'
Cc: Blevins, Bradley G
Subject: Old Indian Draw Unit CTB- Release

Mike/ Jim

Chevron had a release at the OIDU CTB. Bolts sheared on triplex pump causing packing to blow out, 80 barrels of produced water was released to the location pad. 60 barrels was recovered by vacuum truck, Cliff Brunson will follow up with a initial C-141. If you have any questions please let me know.

Thanks

Chevron
Bradley Blevins
Chevron Delaware Basin
HE Specialist
Hobbs FMT
Direct 575-391-1462 86424
Cell- 575-441-0341

Bratcher, Mike, EMNRD

From: Daniel Dominguez <ddominguezepi@gmail.com>
Sent: Wednesday, December 03, 2014 3:50 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov; Gwin, Stephen
Subject: Indian Draw Tank Battery Initial C-141
Attachments: Indian Draw Tank Battery Initial C-141.pdf

Gentlemen,

Attached for your review is the Initial C-141 for the Indian Draw Tank Battery operated by Chevron.

This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online.

--
Sincerely,
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant/Safety Director

Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, NM 88231
(575) 631-0401 (Cell)
(575) 394-3481 (Office)
(575) 394-2601 (fax)

Appendix C

Approved Variance

Mr. Nelson Velez
Environmental Specialist
EMNRD - Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

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

TX Engineering License # F-533
TX Geoscientist License # 50158

Date: April 18, 2023
Subject: Soil Remediation Work Plan/Variance Request
Old Indian Draw Unit #001
Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Eddy County, New Mexico

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Mr. Velez
NMOCD
April 18, 2023

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Log 1. 2023 Photographic Log

Appendices

Appendix A. **Initial C-141 Form Incident #'s NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)**
Appendix B. **Temporary Monitoring Well Boring Log**
Appendix C. **Laboratory Analytical Reports**

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Mr. Velez
NMOCD
April 18, 2023

Dear Mr. Velez,

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation Work Plan/Variance Request on behalf of Chevron U.S.A. Inc. (Chevron), for proposed soil remediation activities at the Old Indian Draw Unit #001 (Site), located in Eddy County, New Mexico.

Background

The Site is located approximately 8-miles southeast of the City of Carlsbad in Unit Letter J, Section 18, Township 22 South, Range 28 East. The former Old Indian Draw Unit #001 is an approximate 2.5-acre restored former well pad and tank battery characterized by numerous active and inactive underground utilities that transect the Site. The underground utilities are anticipated to remain active until production operations cease in the area. The Site is located on land owned by the United States Department of the Interior and administered by the Bureau of Land Management (BLM). The site location map is provided as **Figure 1**.

Four open incident numbers are associated with the Site. While environmental records suggest limited remediation activities were conducted at the Site, the incidents were not closed prior to restoring the well pad and tank battery facility. The following Incident numbers associated with the Old Indian Draw Unit #001 Site are being assessed concurrently:

1. Incident No: NKMW1105550129 (2RP-611) – listed under Chesapeake Operating, Inc.

   On February 17, 2011, an equipment failure caused a release of approximately 70 barrels (bbls) of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 18, 2011, and assigned remediation permit number 2RP-611.

2. Incident No: NMLB1226438559 (2RP-1297) – listed under Chesapeake Operating, Inc.

   On August 20, 2012, an equipment failure caused a release of approximately 300 bbls of produced water, of which 170 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on September 10, 2012, and assigned remediation permit number 2RP-1297.

3. Incident No: NJMW1334440905 (2RP-2104) – listed under Chesapeake Operating, Inc.

   On December 2, 2013, an equipment failure caused a release of approximately 80 bbls of produced water, of which 60 bbls of produced water were recovered. The Initial C-141 Form was submitted to the NMOCD on December 6, 2013, and assigned remediation permit number 2RP-2104. This location is included in the November 2018 Ongoing Corrective Actions/Remediations Agreed Compliance Order-Releases (ACO) between Chevron and NMOCD.

4. Incident No: NAB1433953640 (2RP-2644) – listed under Chevron U.S.A. Inc.

   On October 18, 2014, a release of approximately 13 bbls of produced water and oil, of which 11 bbls of produced water and oil were recovered. The Initial C-141 Form was submitted to the NMOCD on December 3, 2014, and assigned remediation permit number 2RP-2644. This location is included in the November 2018 Ongoing Corrective Actions/Remediations ACO between Chevron and NMOCD.

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NMOCD
April 18, 2023

Soil and groundwater assessment activities to further evaluate current site conditions associated with the four incidents were conducted in August 2021, March 2022, and resumed in January 2023 through the present date. Additional remediation activities are pending approval of this Work Plan/Variance Request. The four Initial C-141 Forms for this Site are included in **Appendix A**

Initial Soil Investigation

Between August 17-19, 2021, Larson & Associates, Inc. (Larson) conducted an initial assessment at the Site. During the initial assessment, soil samples were collected at depths ranging from 1 to 20 feet below ground surface (bgs) at 16 locations (S-1 through S-16) utilizing air rotary drilling methods. The collected soil samples were submitted to the laboratory for analysis of chloride; benzene, toluene, ethylbenzene, and xylenes (BTEX); and total petroleum hydrocarbons (Total TPH).

Laboratory analytical results indicated BTEX and Total TPH concentrations were below the applicable laboratory method detection limits (MDLs) in each of the submitted soil samples with the exception of minor detections for TPH (C12-C28 range) at a depth of 1 foot bgs at S-2 (182 milligrams per kilogram (mg/kg)), Total TPH at S-5 at 1 foot bgs (57.1 mg/kg), benzene (0.00515 mg/kg) and BTEX (0.0117 mg/kg) at S-7 at 1 foot bgs, and benzene (0.00437 mg/kg) and BTEX (0.00435 mg/kg and 0.0102 mg/kg) at S-13 at depths of 1 to 3 feet bgs. Vertical delineation in soil for BTEX and TPH constituents was achieved at all sampling locations. Analytical results indicated chloride concentrations ranged from 8.62 mg/kg in soil sample S-15 at 1-foot bgs to 13,600 mg/kg in soil sample S-8 at 10 feet bgs.

On March 8, 2022, Larson revisited the Site in an effort to further characterize chloride impacts. During the Site visit, an air rotary drill rig was utilized to install investigative soil borings proximate to 6 of the previously drilled locations characterized by soil samples that were above the NMOCD regulatory limit of 600 mg/kg for chloride (S-3, S-7, S-8, S-9, S-10, and S-12). The 6 borings were installed at depths ranging from 15 feet bgs to approximately 45 feet bgs. Soil borings S-7 and S-8 were installed in the center of the pad to approximately 45 feet bgs. Larson's assessment activities confirmed chloride impact to soil to depths of approximately 45 feet bgs in the areas characterized by soil borings S-7 and S-8, indicating potential groundwater impact from chloride. No detections for BTEX or TPH were reported in any soil samples collected from the 6 locations during this subsequent soil assessment.

Analytical results from the Larson assessment are depicted in **Table 1**. Soil boring locations completed by Larson are depicted on **Figure 2**.

Safety Concerns

Hydrogen sulfide concentrations have been documented as high as 40,000 parts per million (ppm) from nearby production facilities, and active ancillary fiberglass flow lines that transect the Site are inferred to contain similar concentrations. High consequence health and safety risks (explosion, nervous system impairment and death from concentrations as low as 100 ppm) associated with a potential release from damaged underground fiberglass flowlines and/or a line strike are an ongoing concern at this Site.

Hydro excavation activities began in January 2023 within the impacted areas in an effort to daylight and/or exhume the active underground utilities including numerous fiberglass crude oil flowlines, fiberglass produced water injection lines, electrical lines, and additional ancillary underground utilities associated with previous and

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ongoing oil and gas production operations proximate to the former pad area. Multiple hydro excavation units are currently being utilized at the Site.

Risks of potential unanticipated/undetected damage to active underground fiberglass production lines by yellow iron type excavation activities within base rock material proximate to the fiberglass production lines are also a significant concern for continued operations within the well field.

Additional Field Activities Summary

Arcadis began additional soil assessment activities across the former pad area on January 23, 2023, utilizing a stainless-steel hand auger. During soil assessment activities, a resilient rock layer was encountered at depths ranging from approximately 1-foot to 2.5-feet bgs at all boring locations. The depth to resilient rock encountered during assessment activities throughout the Site is depicted on **Figure 3**.

Arcadis collected 62 soil samples (G-1 through G-62) in an approximate grid pattern across the former pad area at depths ranging from approximately six inches bgs to 2 feet bgs in an effort to further characterize the horizontal extent of chloride impacts at the Site. The collected soil samples were field screened for concentrations of chloride. Select soil samples that field screened below applicable screening limits for chloride (600 mg/kg) were submitted for analytical confirmation to Eurofins/Xenco Laboratories in Midland, Texas for BTEX, Total TPH and chloride analyses. The collection of soil samples from deeper intervals was precluded due to the presence of the resilient calcrete rock layer at all sample locations. The soil sample locations are depicted on **Figure 2**.

On February 13, 2023, Arcadis oversaw the installation of a temporary monitoring well (TW-1) at the Site. The temporary monitoring well was installed in the center of the pad approximately 10 feet northeast of the southern wellhead P&A marker at the Site. During the installation of the temporary monitoring well, soil samples were collected from select intervals for laboratory analysis of BTEX, Total TPH, and/or chloride. Laboratory analytical results from soil samples collected during the installation of the temporary monitoring well indicated chloride concentrations above NMOCD closure criteria in soil extend to the groundwater bearing unit encountered at approximately 46 feet bgs; BTEX and Total TPH concentrations were below the applicable laboratory MDLs in all soil samples analyzed for those constituents with the exception of a TPH Gasoline Range Organic (GRO C6-C10) detection at an estimated concentration of 31.1 mg/kg at a depth of approximately 5 feet bgs.

On February 16, 2023, the temporary monitoring well was developed utilizing Environmental Protection Agency (EPA) Standard Methods. Following development activities on the temporary monitoring well, a groundwater sample was collected and submitted to the laboratory for analysis of chloride, total dissolved solids (TDS), and BTEX concentrations. Laboratory analytical results indicated chloride and TDS concentrations were above the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards of 250 milligrams per liter (mg/L) for chloride and 1,000 mg/L for TDS. Chloride was reported at 10,400 mg/L and TDS was reported at 15,100 mg/L. BTEX constituents were not detected in groundwater above the applicable laboratory MDLs. A copy of the Temporary Monitoring Well Boring Log is provided as **Appendix B**.

One additional soil sample test trench (S-1) was installed with an excavator down to approximately 2 feet bgs (the top of the calcrete rock layer) northeast of the pad area on February 22, 2023, to further horizontal delineation of chloride impact to soil. The two soil samples collected from S-1 at depths of 1-foot bgs and 2 feet bgs were reported with chloride concentrations of 73.1 mg/kg and 357 mg/kg, respectively.

Evaluation of soil data collected to date confirmed horizontal delineation of the release area was accomplished in conjunction with the initial Larson soil assessment activities conducted in 2021 and 2022. Groundwater impacts

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will be further evaluated and an Abatement Plan per NMAC 19.15.30 is anticipated to be submitted to the NMOCD for the Site following completion of soil remediation and reclamation activities.

Analytical results from the subsequent Arcadis soil assessments can be found in **Table 2,** groundwater analytical results from groundwater samples collected from the temporary monitoring well can be found in **Table 3.** The soil sample and temporary monitoring well locations installed by Arcadis are depicted on **Figure 2**. Current site conditions, utilities, and the resilient rock layer encountered are documented in the attached **Photographic Log** and on **Figure 3.** Laboratory analytical reports for soil and groundwater data collected are included in **Appendix C**.

Variance Request

Numerous active and inactive underground utilities have been identified throughout the site boundaries at depths ranging from approximately 3 to 4 feet bgs. Repeated attempts to break through the resilient calcrete rock layer encounter across the Site at depths ranging from approximately 1 foot bgs to 2.5 feet bgs utilizing a track hoe equipped with a trenching bucket and “rock teeth” yielded limited results following attempts at locations safely distanced from known underground utilities.

Continued excavation activities below the calcrete rock layer are believed not practicable based on the Site’s geologic conditions and the associated high-risk potential to damage subsurface utilities which has the potential to cause harm to human health and the environment.

Analytical data collected during assessment activities confirm soil within the release area has been horizontally delineated for chloride, chloride impact to soil extends to the groundwater bearing unit, and that groundwater is impacted with chloride and TDS above applicable NMAC/ NMWQCC screening standards. Assessment activities confirm limited vertically delineated impacts above applicable screening standards for BTEX or TPH are currently present in surface soil but have not migrated to groundwater at the Site. BTEX and TPH concentrations detected in soil are not believed a risk to groundwater.

As such, Arcadis is requesting approval of the following Variance for soil remediation activities:

- Based on the size of the Site and the amount of initial assessment data, Arcadis requests a variance to increase the composite confirmation soil sampling frequency to 500 square feet for excavation base and sidewalls samples within the approximate 2.5-acre release area.
- Due to the abundance of buried fiberglass utilities containing high H2S fluids and the resilient nature of the calcrete rock layer encountered throughout the release area, Arcadis is requesting a variance to limit excavation activities to include only removing impacted soil affected above the NMOCD Reclamation Standards present within the release area to the maximum extent practicable (to the surface of the calcrete rock layer).
- Should any impacted areas be confirmed to not be restricted by the calcrete rock layer and are not immediately adjacent to existing underground utilities, excavation activities will be continued to depths practical with standard excavation equipment.
- Following excavation of impacted soil affected above the NMOCD closure criteria, a layer of gypsum and/or a desalination product will be installed on the floor of the excavated area. This control is designed to inhibit the downward migration of chloride remaining in-situ.

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Mr. Velez
NMOCD
April 18, 2023

- Arcadis requests approval to install a geosynthetic liner atop impacted areas exhibiting BTEX, TPH and/or chloride concentrations above the NMOCD Closure Criteria remaining in-situ. The liner will be installed atop the resilient calcrete rock layer and a connecting bentonite slurry liner will be installed below the existing underground utilities. This engineering control is designed to inhibit the vertical migration of site constituents of concern in soil to groundwater along with the upward migration of chloride to further support revegetation of the remediated area.
- Upon installing the geosynthetic liner, the excavated areas will be backfilled with locally sourced, non-impacted “like” material.
- Upon completion of remediation activities, the area will be reseeded with a BLM approved seed mixture during the first favorable growing season following closure of the Site.

Upon completion of the remediation and reclamation activities, a *Remediation Summary and Soil Closure Request* will be submitted to the NMOCD, containing a detailed summary of the field activities and laboratory analytical results.

If you have any questions or comments with regards to this work plan and variance request, please do not hesitate to contact Scott Foord at 713.953.4853 or by e-mail at William.Foord@arcadis.com.

Sincerely,

Arcadis U.S., Inc.

Scott Foord, PG

Program Manager

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Tables

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-1	1	8/17/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	249
	3	8/17/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	221
	5	8/17/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	372
	10	8/17/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	574
S-2	1	8/17/2021	In-Situ	<0.00200	<0.00399	<50.0	182	<50.0	**182**	**909**
	3	8/17/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	511
	5	8/17/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	470
S-3	1	8/17/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**994**
	3	8/17/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**2,950**
	5	8/17/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**2,340**
	10	8/17/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**2,070**
	15	8/17/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,730**
	20	8/17/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	**1,160**
	25	3/10/2022	In-Situ	--	--	--	--	--	--	57.2
S-4	1	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**955**
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,140**
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**698**
	10	8/18/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	502
S-5	1	8/18/2021	In-Situ	<0.00200	<0.00399	<50.0	57.1	<50.0	57.1	180
	3	8/18/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	514
	5	8/18/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	590
	8	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	405
S-6	1	8/18/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**1,200**
	3	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	365
	5	8/18/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	142

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	10	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	40.9
S-7	1	8/18/2021	In-Situ	0.00515	0.0117	<50.0	<50.0	<50.0	<50.0	**8,350**
	3	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**8,180**
	5	8/18/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**9,990**
	10	8/18/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**6,270**
	15	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**5,640**
	20	3/8/2022	In-Situ	--	--	--	--	--	--	**1,900**
	25	3/8/2022	In-Situ	--	--	--	--	--	--	**2,820**
	30	3/8/2022	In-Situ	--	--	--	--	--	--	**3,330**
	35	3/8/2022	In-Situ	--	--	--	--	--	--	**1,320**
	40	3/8/2022	In-Situ	--	--	--	--	--	--	**868**
	45	3/8/2022	In-Situ	--	--	--	--	--	--	**2,720**
S-8	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**6,830**
	3	8/18/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	**7,210**
	5	8/18/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**9,020**
	10	8/18/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**13,600**
	15	3/8/2022	In-Situ	--	--	--	--	--	--	**2,230**
	20	3/8/2022	In-Situ	--	--	--	--	--	--	**1,610**
	35	3/8/2022	In-Situ	--	--	--	--	--	--	**4,830**
	30	3/8/2022	In-Situ	--	--	--	--	--	--	**3,290**
	35	3/8/2022	In-Situ	--	--	--	--	--	--	**2,030**
	40	3/8/2022	In-Situ	--	--	--	--	--	--	**1,080**
	45	3/8/2022	In-Situ	--	--	--	--	--	--	**1,310**
S-9	1	8/18/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	146

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	3	8/18/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	220
	5	8/18/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**2,250**
	10	8/18/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**2,460**
	15	3/9/2022	In-Situ	--	--	--	--	--	--	459
S-10	1	8/18/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**3,240**
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**3,450**
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,490**
	10	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,870**
	15	3/9/2022	In-Situ	--	--	--	--	--	--	**1,490**
	20	3/9/2022	In-Situ	--	--	--	--	--	--	**5,320**
	25	3/9/2022	In-Situ	--	--	--	--	--	--	401
S-11	1	8/18/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	25.5
	3	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	48.5
	5	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	65.5
S-12	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**2,670**
	3	8/18/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**1,740**
	5	8/18/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**2,060**
	10	3/9/2022	In-Situ	--	--	--	--	--	--	**791**
	15	3/9/2022	In-Situ	--	--	--	--	--	--	162
S-13	1	8/19/2021	In-Situ	<0.00200	0.00435	<50.0	<50.0	<50.0	<50.0	556
	3	8/19/2021	In-Situ	0.00437	0.0102	<49.8	<49.8	<49.8	<49.8	497
	5	8/19/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	366
S-14	1	8/19/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	104
	3	8/19/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	477

Table 1
2021/2022 Soil Analytical Results
Old Indian Draw Unit 001 Historical Release
Eddy County, New Mexico
32° 23' 26.79" North, 104° 07' 27.90" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-15	1	8/18/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	8.62
	3	8/18/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	26.0
S-16	1	8/19/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	233
	3	8/19/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	454
	5	8/19/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	260
	10	8/19/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	244

Notes: Analysis performed by Xenco Laboratories (Xenco) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation action limits

Chevron
Table 2
2023 Soil Analytical Results - Arcadis
Old Indian Draw Unit 001
Eddy County, New Mexico

Location ID	Depth (Feet)	Date Collected	Sample Name	Soil Status	BTEX					TPH				Gen Chem
					Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes, Total mg/kg	Total BTEX mg/kg	Gasoline Range Organics (GRO)-C6-C10 mg/kg	Diesel Range Organics (Over C10-C28) mg/kg	Oil Range Organics (Over C28-C36) mg/kg	Total TPH mg/kg	Chloride, Dissolved mg/kg
NMAC Screening Limit					10	- -	- -	- -	50	- -	- -	- -	100	600
G-01	0.5	01/23/2023	G-1-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	237
G-02	0.5	01/23/2023	G-2-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	16.5
G-03	0.5	01/23/2023	G-3-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	63.1
G-07	0.5	01/23/2023	G-7-S-0-6"20230123	In-Situ	--	--	--	--	--	--	--	--	--	357
G-11	0.5	01/23/2023	G-11-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	372
G-12	0.5	01/23/2023	G-12-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	80.7
G-14	0.5	01/23/2023	G-14-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	296
G-25	0.5	01/23/2023	G-25-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	54.4
G-26	0.5	01/23/2023	G-26-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	61.4
G-27	0.5	01/23/2023	G-27-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	257
G-28	0.5	01/23/2023	G-28-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	222
G-31	0.5	01/23/2023	G-31-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	28.8
G-32	0.5	01/23/2023	G-32-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	**3850**
G-33	0.5	01/23/2023	G-33-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	71.6
G-34	0.5	01/23/2023	G-34-S-0-6"-20230123	In-Situ	--	--	--	--	--	--	--	--	--	72.7
G-35	0.5	01/27/2023	G-35-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	436
G-36	0.5	01/27/2023	G-36-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	25.3
G-37	0.5	01/27/2023	G-37-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	2.40J
G-38	0.5	01/27/2023	G-38-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	432
G-39	0.5	01/27/2023	G-39-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	**672**
G-41	0.5	01/27/2023	G-41-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	33.6
G-42	0.5	01/27/2023	G-42-S-0-6"-20230127	In-Situ	--	--	--	--	--	--	--	--	--	2.97J
G-44	0.5	01/31/2023	G-44-S-0-6"-20230131	In-Situ	--	--	--	--	--	--	--	--	--	<5.03
G-45	0.5	01/31/2023	G-45-S-0-6"-20230131	In-Situ	--	--	--	--	--	--	--	--	--	5.16
G-55	1	02/02/2023	G-55-S-1'-20230202	In-Situ	--	--	--	--	--	--	--	--	--	100
G-58	0.5	02/08/2023	G-58-S-0-6'-20230802	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	10.9
G-59	0.5	02/08/2023	G-59-S-0-06'-20230802	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	17.8
G-60	0.5	02/08/2023	G-60-S-0-6"-20230802	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	<5.01
G-61	0.5	02/08/2023	G-61-S-06"-20230802	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<5.02
G-62	0.5	02/08/2023	G-62-S-0-6"-20230802	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<4.98
G-63	0.5	02/08/2023	G-63-S-0-6"-20230802	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<5.01
TW-1	0.5	02/13/2023	TW-1-S-0-0.5'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**975**
TW-1	5	02/13/2023	TW-1-S-4-5'-230213	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	31.1J B	<15.0	<15.0	31.1J	275
TW-1	10	02/13/2023	TW-1-S-10'-230213	In-Situ	--	--	--	--	--	--	--	--	--	50.5
TW-1	15	02/13/2023	TW-1-S-15'-230213	In-Situ	--	--	--	--	--	--	--	--	--	485
TW-1	20	02/13/2023	TW-1-S-20'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**1850**
TW-1	25	02/13/2023	TW-1-S-25'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**4230**
TW-1	30	02/13/2023	TW-1-S-30'-230213	In-Situ	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<14.9	<14.9	<14.9	<14.9	**4710**
TW-1	35	02/13/2023	TW-1-S-35'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**3910**
TW-1	40	02/13/2023	TW-1-S-40'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**1020**
TW-1	45	02/13/2023	TW-1-S-45'-230213	In-Situ	--	--	--	--	--	--	--	--	--	**1020**
S-1	1	02/22/2023	S-1-S-1'-20230223	In-Situ	--	--	--	--	--	--	--	--	--	73.1
S-1	2	02/22/2023	S-1-S-2'-20230223	In-Situ	--	--	--	--	--	--	--	--	--	357

Legend:
Analytes exceedng NMAC standards are indicated in **bold** and grey
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
bgs: Below ground surface
B: Compound was found in the blank and sample
TW: Temporary well
G: Shallow soil sample
Notes:
1. Chloride analyzed by EPA Method 300
2. TPH analyzed by EPA Method 8015 M
3. BTEX analyzed by EPA Method 8260B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)
NMOCD: New Mexico Oild Conservation Division
--: No individual standard

Chevron
Table 3
2023 Groundwater Analytical Results
Old Indian Draw Unit 001
Eddy County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	Total Dissolved Solids
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005[1]	1.0[1]	0.7[1]	0.62[1]	250[2]	1,000
TW-1	2/16/23	<0.000408	<0.000367	<0.000657	<0.000642	10,400	15,100

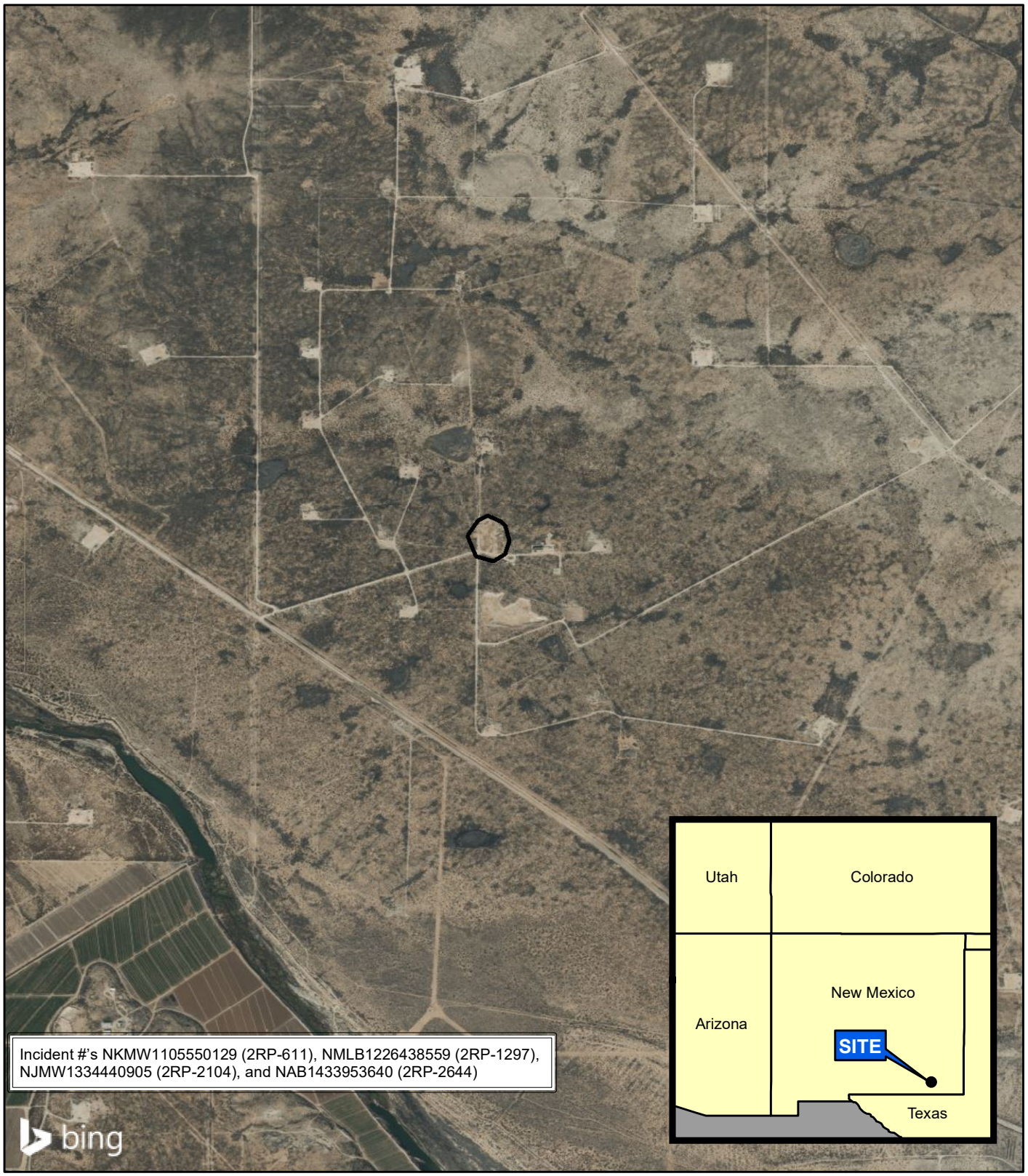
Notes:

Results shown in mg/L.

[1]Human Health Standards for Groundwater.

[2]Other Standards for Domestic Water Supply.

Figures



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NOTES:
Datum: D_WGS_1984
Source: Bing Map
Site Location: 32.3925°, -104.1253°

0 2,000 4,000 Feet
GRAPHIC SCALE

LEGEND:
Site Location

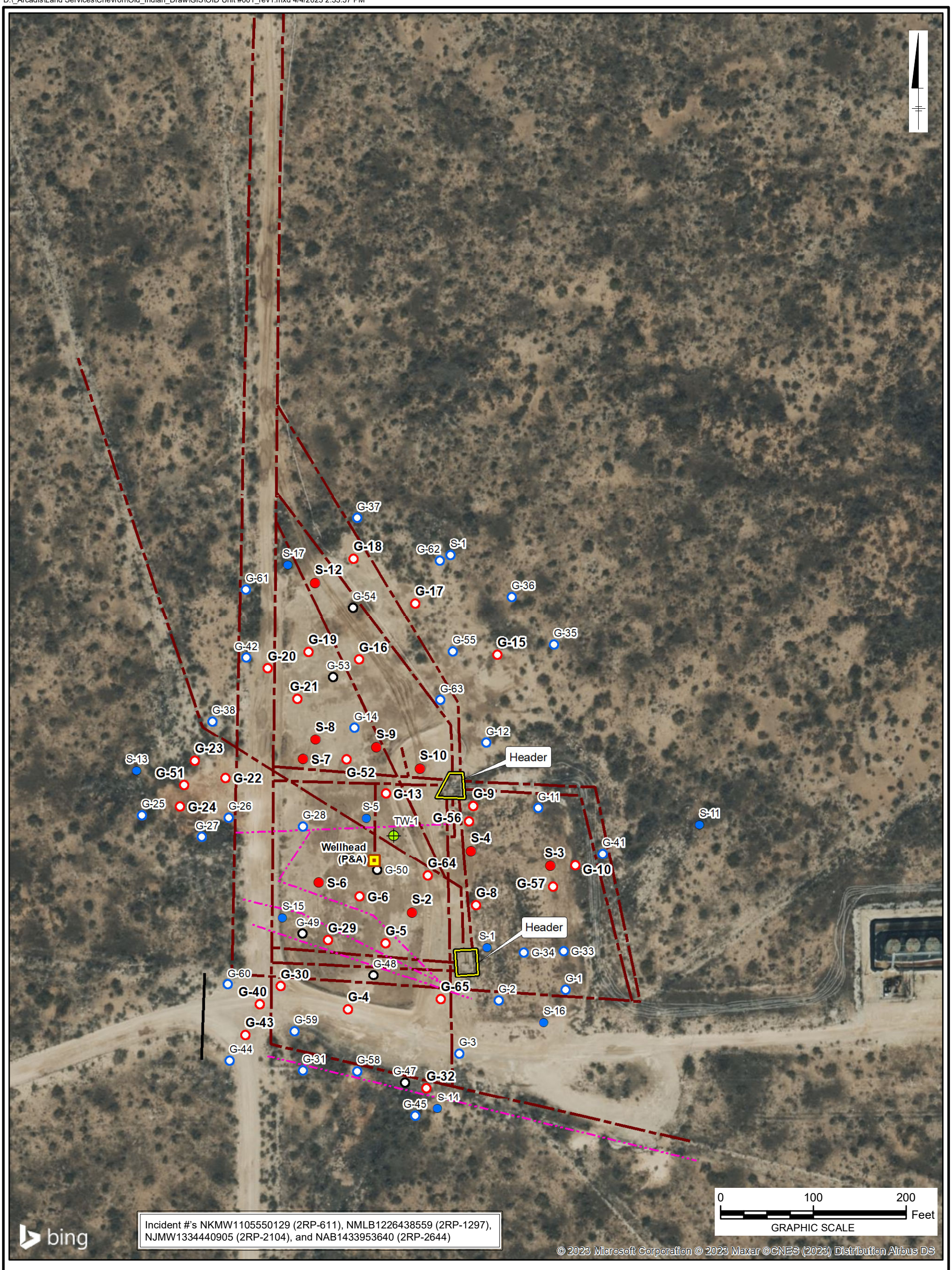
MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE
1

City: Div/Group: Created By: Last Saved By: wberry
Project (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\OID Unit #001_rev1.mxd 4/4/2023 2:33:57 PM



Legend

- 2021/2022 Sample Locations (above 600 mg/kg chloride)
- 2021/2022 Sample Locations (below 600 mg/kg chloride)
- 2023 Field Screening Sample locations (above 600 mg/kg chloride)
- 2023 Sample locations (below 600 mg/kg chloride)
- No Screening Results/ Encountered Rock (proposed >6")
- Temporary Monitor Wells
- Production Lines
- Electrical
- Unknown

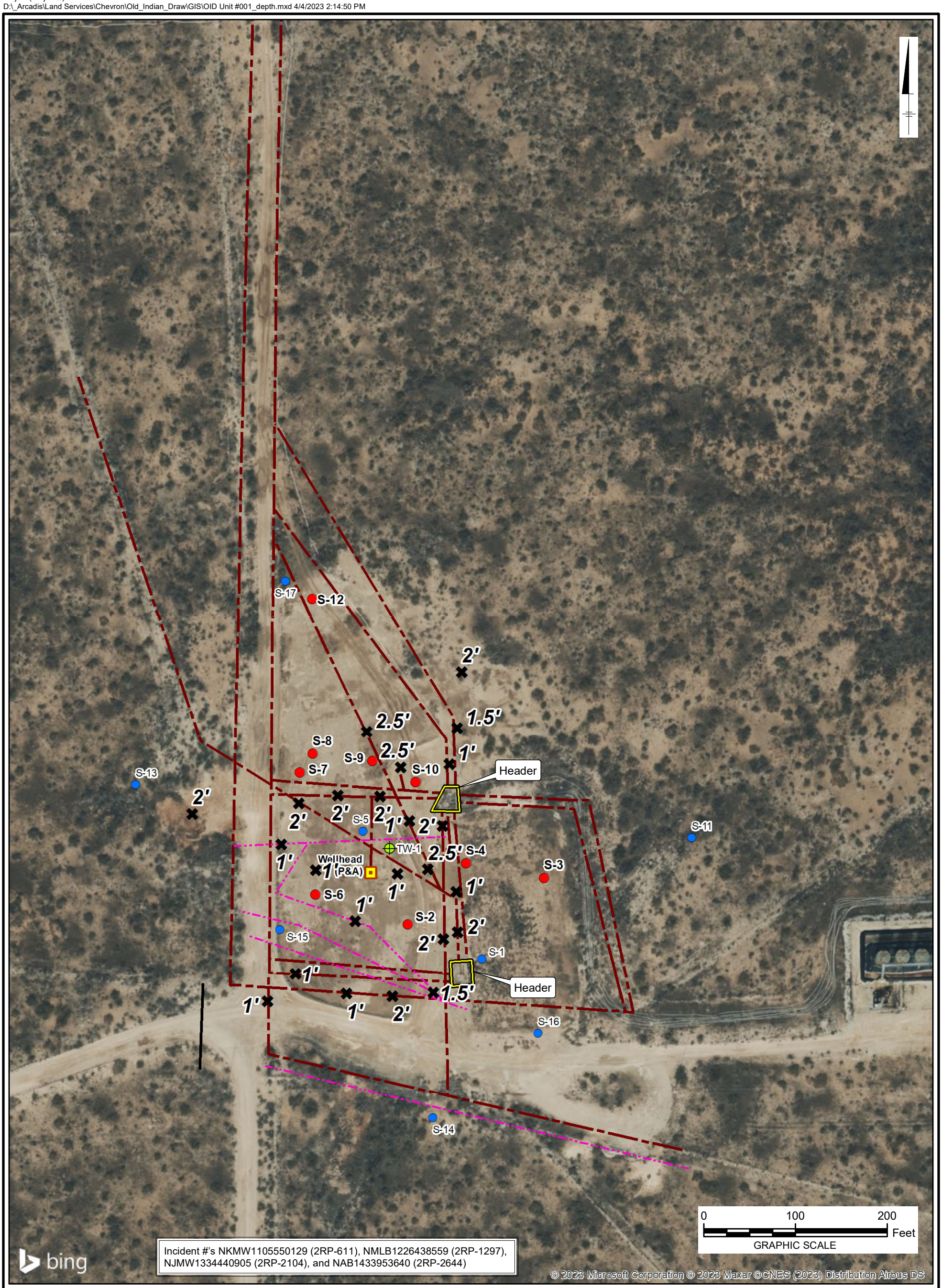
MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

SITE DETAILS MAP

ARCADIS

FIGURE
2

City: Div/Group: Created By: Last Saved By: wberry
Project (Project #)
D:_Arcadis\Land Services\Chevron\Old_Indian_Draw\GIS\OID Unit #001_depth.mxd 4/4/2023 2:14:50 PM



Legend

- 2021/2022 Sample Locations (above 600 mg/kg chloride)
- 2021/2022 Sample Locations (below 600 mg/kg chloride)
- Temporary Monitor Wells
- Depth to Bedrock
- Production Lines
- Electrical
- Unknown

MCBU
OLD INDIAN DRAW ~ UNIT #001
EDDY COUNTY, NEW MEXICO

DEPTH TO BEDROCK CONFIRMATION MAP

ARCADIS

FIGURE 3

Photographic Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
1	03/20/2023

Direction Photo Taken:

Facing NW

Description:

View of hydro-excavated area proximate to the northern header area on pad within the release area. Depth to calcrete rock layer ranging from 1 to 1.5 feet bgs.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
2	03/20/2023

Direction Photo Taken:

Facing NE

Description:

View of active polylines and crossing abandoned steel line. Depth to calcrete rock layer ranging from 1 to 1.5 feet bgs.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
3	02/10/2023

Direction Photo Taken:

Facing E

Description:

View of southern header location. Active lines at 2 feet bgs.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
4	02/10/2023

Direction Photo Taken:

Facing N

Description:

Active lines located east of northern header at 2.5 feet bgs.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
5	02/10/2023

Direction Photo Taken:

Facing NW

Description:

View of active fiberglass lines, abandoned electrical, and calcrete rock layer at depths ranging from 1 to 1.5 feet bgs.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit 001	Eddy County, NM	NKMW1105550129 (2RP-611), NMLB1226438559 (2RP-1297), NJMW1334440905 (2RP-2104), and NAB1433953640 (2RP-2644)

Photo No.	Date:
6	02/10/2023

Direction Photo Taken:

N

Description:

Well head marker in the center of pad.

Appendix A

Initial C-141 Forms

RECEIVED
FEB 18 2011
NMOCD ARTESIA

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-20918
nKMW1105555D129 147179

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company CHESAPEAKE OPERATING, INC.	Contact BRADLEY BLEVINS
Address P. O. BOX 190 HOBBS, NM 88241	Telephone No. 575-391-1462
Facility Name Old Indian Draw Unit 1	Facility Type Tank Battery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE API #30-015-20918

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	SOUTH	1980	EAST	EDDY

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 70 BBLS	Volume Recovered 60 BBLS
Source of Release Tank valve corroded and broke	2/17/11 9:00 a.m. Date and Hour of Occurrence	2/17/11 10:00 A.M. Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Bradley Blevins	Date and Hour 2/17/11 3:05 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Valve to water tank corroded and broke releasing 70 BBLS of produced water into the containment area and onto the location. Vacuum trucks were used to recover free fluids.

Describe Area Affected and Cleanup Action Taken.*
10 BBLS of produced water were lost. Upon completion of delineation and remediation activities a final C-141 and lab data will be furnished to the OCD.

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

Signature: Bradley Blevins

Printed Name: Bradley Blevins

Title: HSE Specialist

E-mail Address: Bradley.blevins@chk.com

Date: 2/18/11 Phone: 575-391-1462

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: 3/3/11 Expiration Date:

Conditions of Approval: Attached ☐

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/3/11

2RP-611

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:19 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

****
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****

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Friday, February 18, 2011 5:28 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; James A. Amos; Terry Gregston
Subject: Chesapeake-Old Indian Draw Unit No. 1
Attachments: Initial C-141-Old Indian Draw Unit #1.pdf

Mike,

Please find attached the initial C-141 for the above referenced well site release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-mail: cbrunson@bbcinternational.com
Web: www.bbcinternational.com

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RECEIVED
SEP 10 2012
NMOCD ARTESIA

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

nMLB 1226438559

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Chesapeake Energy 147179	**Contact:** Bradley Blevins
Address: 5014 Carlsbad Highway	**Telephone No.:** (575) 391-1462 ext. 86424
Facility Name: Old Indian Draw Unit Battery	**Facility Type:** Tank Battery

Surface Owner: Federal Government	**Mineral Owner:** Federal Government	**Lease No.:** NM-0415688-A

30-015-20918

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22 S	28 E					Eddy

Latitude: N 32° 23' 26.01" **Longitude:** W 104° 07' 28.58"

NATURE OF RELEASE

Type of Release: Produced Water	**Volume of Release:** ~300 bbls	**Volume Recovered:** ~170 bbls
Source of Release: Nipple on produced water line	**Date and Hour of Occurrence:** August 30, 2012 @ ~08:30 hrs	**Date and Hour of Discovery:** August 30, 2012 @ ~08:30 hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Mike Bratcher, NMOCD; James Amos BLM	
By Whom? Bradley Blevins	**Date and Hour:** August 30, 2012 @ ~08:30 hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Depth to Groundwater: ~ 50 feet

Describe Cause of Problem and Remedial Action Taken.* A one-inch nipple ruptured releasing approximately 300 bbls of produced water. Approximately 170 bbls were recovered via vacuum truck. An Emergency Response Team arrived at the release area and began continuous abatement of the impacted area.

Describe Area Affected and Cleanup Action Taken.* Approximately 12,730 square feet of area was affected by the release of produced water. Visibly stained soil was excavated and hauled away for disposal at a state approved facility. Soil samples were collected and submitted to Cardinal Laboratories for testing. Upon receiving acceptable results and NMOCD approval, the affected area will be backfilled, and returned to proper conditions.

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

Signature: Bradley Blevins

Printed Name: Bradley Blevins

Title: EH & S Field Specialist

E-mail Address: bradley.blevins@chk.com

Date: 9-10-12 **Phone:** (575) 391-1462, #86424

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: SEP 20 2012 **Expiration Date:**

Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 10/20/2012

Attached ☐

2RP-1297

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Monday, September 10, 2012 9:22 AM
To: Amos, James A (jamos@blm.gov); Bratcher, Mike, EMNRD
Cc: Bradley Blevins
Subject: Old Indian Draw Unit 1- Initial C-141
Attachments: 20120910091924109.pdf

Please find the attached initial C-141 for the release on the Old Indian Draw Unit. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679

Chesapeake

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Bratcher, Mike, EMNRD

From: Bradley Blevins <bradley.blevins@chk.com>
Sent: Thursday, August 30, 2012 9:18 AM
To: Bratcher, Mike, EMNRD; Amos, James A (jamos@blm.gov); James_Amos@blm.gov
Cc: Bradley Blevins; Daniel Dominguez (ddominguezepi@gmail.com)
Subject: Old Indian Draw UT 1 CTB- Release

Mike/ Jim

Chesapeake had a release this am at 8:30 am on the Old Indian Draw UT CTB. A one inch nipple ruptured releasing produced water to the ground surface, pumpers are still investigating the amount of fluid lost and have vacuum truck in route to recover the fluid on location. Environmental plus crew has been dispatched to the release to start clean up phase, once we have all the details we will follow up with a C-141. If you have any questions please let me know.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679

Chesapeake

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED
DEC 06 2013
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

nJMW 1334440905

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Chevron Delaware Basin 4323	Contact Bradley Blevins
Address PO Box 190, Hobbs, NM 88241	Telephone No. (575) 391-1462
Facility Name Old Indian Draw CTB	Facility Type Gathering

Surface Owner BLM	Mineral Owner	API # 30-015-20918(nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E	1980	South	1980	East	Eddy County, NM

Latitude N 32.39060° **Longitude** W 104.12463°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 80 bbls	Volume Recovered 60 bbls
Source of Release Triplex pump failure	Date and Hour of Occurrence 12/02/2013 @ 10:00 am	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher- NMOCD, James Amos- BLM	
By Whom? Bradley Blevins	Date and Hour 12/02/2013 @ 3:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.*
A triplex pump failure caused 80 bbls of produced water to leak onto the ground. 60 bbls of fluid were recovered via vacuum truck and the pump was repaired. Further remediation will be performed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: Bradley Blevins	OIL CONSERVATION DIVISION
Printed Name: Bradley Blevins	Approved by District Supervisor: Signed By Mike Bratcher
Title: HE Specialist	Approval Date: DEC 10 2013 Expiration Date:
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval: Attached ☐
Date: 12/6/13 Phone: (575) 391-1462	Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: January 10, 2013

2RP-2104

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Friday, December 06, 2013 8:48 AM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: 'Bradley Blevins'; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com
Subject: Initial C-141s, Littlefield Federal SWD #1 and Old Indian Draw CTB
Attachments: Initial C-141, Littlefield Federal SWD #1.pdf; Initial C-141, Old Indian Draw CTB.pdf

Attached are the initial C-141s for leaks that occurred at the Littlefield Federal SWD #1 on 12/01/2013 and the Old Indian Draw CTB on 12/02/2013 in Eddy County, NM. Receipt notification via email is greatly appreciated.

Kathy Purvis
BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

Bratcher, Mike, EMNRD

From: Blevins, Bradley G <Bradley.Blevins@chevron.com>
Sent: Monday, December 02, 2013 2:56 PM
To: Bratcher, Mike, EMNRD; 'Amos, James'
Cc: Blevins, Bradley G
Subject: Old Indian Draw Unit CTB- Release

Mike/ Jim

Chevron had a release at the OIDU CTB. Bolts sheared on triplex pump causing packing to blow out, 80 barrels of produced water was released to the location pad. 60 barrels was recovered by vacuum truck, Cliff Brunson will follow up with a initial C-141. If you have any questions please let me know.

Thanks

Chevron
Bradley Blevins
Chevron Delaware Basin
HE Specialist
Hobbs FMT
Direct 575-391-1462 86424
Cell- 575-441-0341

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 03 2014
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

nAB1433953104O **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: Chevron 4323	**Contact:** Stephen Gwin
Address: 2401 Avenue 'O' Eunice, NM 88231	**Telephone No.:** (575) 263 – 0427
Facility Name: Indian Draw Tank Battery	**Facility Type:** tank battery

Surface Owner: BLM	**Mineral Owner:**	**API:** 30-015-20918

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E					Eddy

Latitude: N 32° 23' 26.79" **Longitude:** W 104° 7' 27.90" 32.390775 104.124417

NATURE OF RELEASE

Type of Release: produced water and oil	**Volume of Release:** ~13 bbls	**Volume Recovered:** ~11 bbls
Source of Release: valve was left open and fluid gravity fed to the ground	**Date and Hour of Occurrence:** 10/18/14 @ am	**Date and Hour of Discovery:** 10/18/14 @ 5:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	**If YES, To Whom?** Mike Bratcher, NMOCD	
By Whom? Stephen Gwin	**Date and Hour:** 10/20/14	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

Depth to Water. ~25 ft bgs

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* Approximately 13 bbls of produced water and oil were released when a valve was left open and fluid gravity fed to the ground. A vacuum truck was dispatched to pick up any free standing liquids. Approximately 11 bbls were recovered.

Describe Area Affected and Cleanup Action Taken.* Approximately 3,000 square feet of surface area was impacted by the release. This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online. At that time soil samples will be collected from the area and submitted to Cardinal Laboratories for testing. Upon receipt of laboratory analytical data from soil samples to be collected during delineation operations, EPI will prepare and present a Remediation Proposal for NMOCD approval.

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

Signature: Stephen Gwin

Printed Name: Stephen Gwin

Title: HE Specialist

E-mail Address: stephen.gwin@chevron.com

Date: **Phone:** (575) 263-0427

OIL CONSERVATION DIVISION

Signed By Mike Bratcher

Approved by District Supervisor:

Approval Date: 12/4/14 **Expiration Date:** N/A

Conditions of Approval: **Attached** ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 1/4/15

2RP-2644

* Attach Additional Sheets If Necessary

Site Ranking 20

Bratcher, Mike, EMNRD

From: Daniel Dominguez <ddominguezepi@gmail.com>
Sent: Wednesday, December 03, 2014 3:50 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov; Gwin, Stephen
Subject: Indian Draw Tank Battery Initial C-141
Attachments: Indian Draw Tank Battery Initial C-141.pdf

Gentlemen,

Attached for your review is the Initial C-141 for the Indian Draw Tank Battery operated by Chevron.

This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online.

--
Sincerely,
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant/Safety Director

Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue 'O'
Eunice, NM 88231
(575) 631-0401 (Cell)
(575) 394-3481 (Office)
(575) 394-2601 (fax)

Appendix B

Temporary Monitoring Well Boring Log

Date Start/Finish: 2/13/2023
Drilling Company: White Drilling Company, Inc.
Driller's Name: Bo Atkins
Drilling Method: Air Rotary/ Split Spoon
Sampling Method: Grab

Latitude: 32.390881
Longitude: -104.12482
Casing Elevation: NS

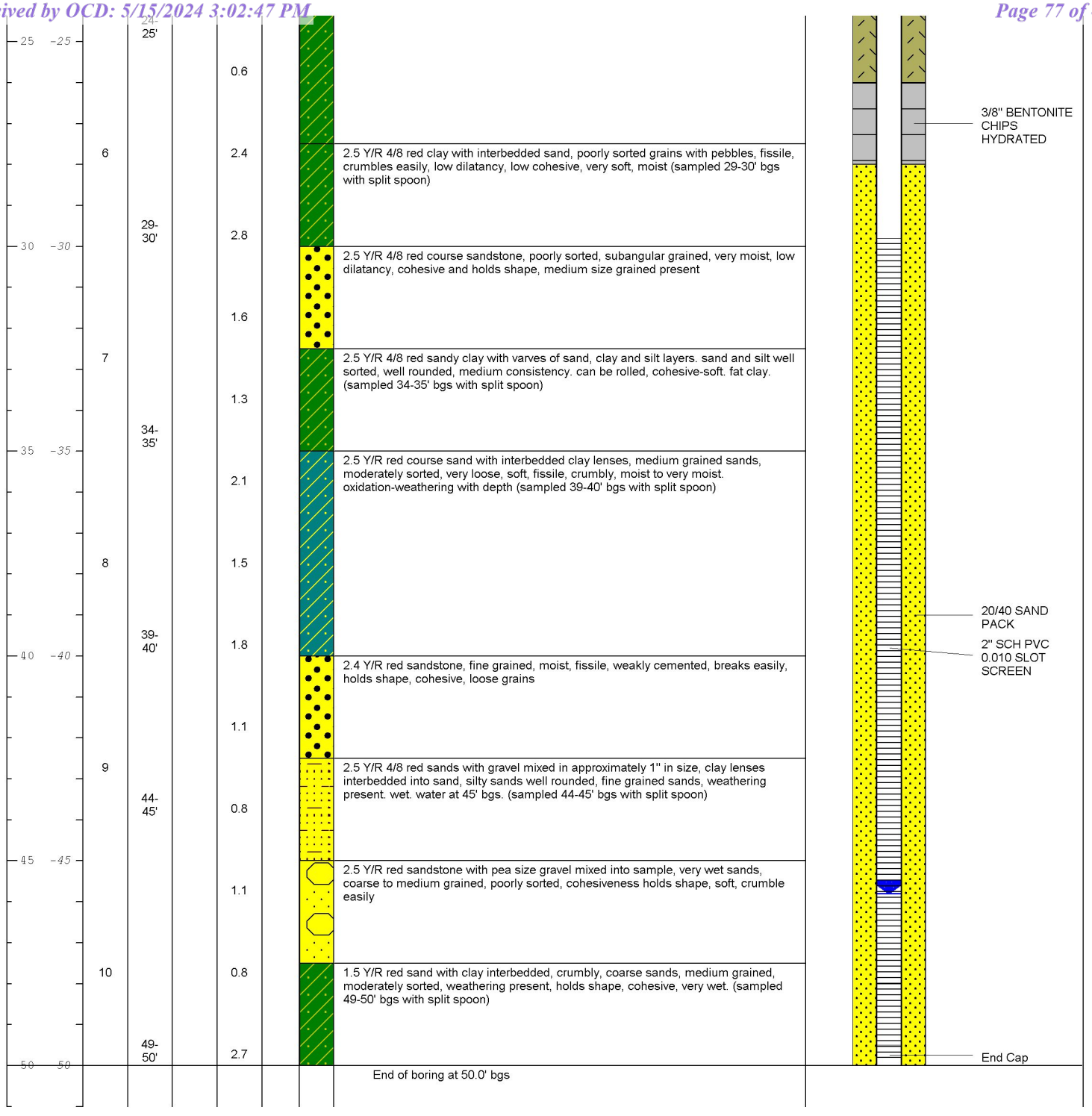
Borehole Depth: 50'
Surface Elevation: NS

Descriptions By: Heather Dudley

Well/Boring ID: TW-1
Client: Chevron-MCBU

Location: Old Indian Draw Unit #001 Carlsbad, New Mexico

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0				0.0			7.5 Y/R 5/5, strong brown, with caliche nodules up to 2", weakly cemented, fissile, dry. Shovel used from 0-0.5'. Hydrovaccum down to 2.5' to get through caliche bed	
	1			2.9			7.5 Y/R 6/4, light brown sandstone, poorly sorted sand, subangular to angular, granule to pebble size. soft, fissile, moist, crumbly	
-5		4-5'		1.3			10 Y/R 7/3 very pale brown sandstone with large pieces of core, poorly sorted, subangular to angular grains, fissile, moist, pebbles to granules (sampled 4-5' bgs with split spoon)	
	2			1.8			10 Y/R 7/4 very pale brown sandstone with large core pieces, moderately sorted, angular to subangular, granules to pebbles present, moist, crumbly, fissile, very weakly cemented (sampled 9-10' bgs with split spoon)	
-10		9-10'		2.0			7/5 Y/R 6/5 reddish yellow sandstone, pebbles present, subangular to angular, moist, holds shape, poorly sorted sand	
	3			2.0			10 Y/R very pale brown sand, course grained sand, very loose, subangular to angular, poorly sorted pebbles to small cobbles, moist, fissile, blocky, not cohesive, weathered-oxidation (sampled 14-15' bgs with split spoon)	NATURAL COLLAPSE
-15		14-15'		28				
	4			1.9			5 Y/R 5/5 silty sandstone with interbedded clay lenses, coarse grained sands, low dilatancy, holds shape, moist, consistency-soft, poorly sorted, subrounded to round sand, pebbles to cobbles present (sampled 19-20' bgs with split spoon)	
-20		19-20'		2.6				
				2.4			5 Y/R reddish yellow silty sandstone with clay lenses, medium grained, poorly sorted, pebbles present, subangular to angular sands, low cohesive, low plasticity, crumbly, weathering, oxidation present,moist	
	5			1.4			2.5 Y/R 4/8 red, clay with lenses of silty sand, very moist, fissile, easily crumbles, soft consitency, low dilatancy, does not hold shape. sand and silt well rounded, well sorted (sampled 24-25' bgs with split spoon)	2" SCH PVC RISER
				1.6				



ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs= below ground surface; TD= total depth; DTW= depth to water; NS=not surveyed; top of casing approximately 1.5' above ground surface

Project: 30166791 Template: LPTEMPLATE_Well_Construction_Final

Data File: Old Indian Draw Date: 2/21/2023 Created/Edited by: Trang Pham

Appendix C

Laboratory Analytical Reports

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

Appendix D

2023 Soil Remediation Photographic Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
1	08/23/2022

Direction Photo Taken:

NW

Description:

Excavation to rock layer

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
2	09/20/2022

Direction Photo Taken:

NE

Description:

Lined excavation

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
3	09/20/2022

Direction Photo Taken:

NE

Description:

Gypsum spread on lines and excavation

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
4	09/20/2022

Direction Photo Taken:

E

Description:

Gypsum spread on excavation prior to backfill

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
5	09/20/2022

Direction Photo Taken:

E

Description:

Hydrating the liner

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
6	09/23/2022

Direction Photo Taken:

NW

Description:

Backfilled excavation prior to seeding

ARCADIS

PHOTOGRAPHIC LOG

Property Name:/	Location:	Case No.
Old Indian Draw Unit #001	Eddy County, NM	NKMW1105550129 , NMLB1226438559, NJMW1334440905, NAB1433953640

Photo No.	Date:
7	09/21/2022

Direction Photo Taken:

N

Description:

Seeding locations

Appendix E

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2023 4:49:34 PM Revision 1

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER 88001630

JOB NUMBER

890-4177-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

my EOL

Eurofins Carlsbad

Job Notes

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
3/24/2023 4:49:34 PM
Revision 1

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

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

General Chemistry

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

Glossary

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4002-2

Receipt
The samples were received on 1/31/2023 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: L-11-S-0-6' 20230131 (890-4002-1), L-12-S-0-6' 20230131 (890-4002-2), L-13-S-0-6' 20230131 (890-4002-3), L-14-S-0-6' 20230131 (890-4002-4), L-15-S-0-6' 20230131 (890-4002-5), L-16-S-0-6' 20230131 (890-4002-6), L-17-S-0-6' 20230131 (890-4002-7), L-18-S-0-6' 20230131 (890-4002-8), L-19-S-0-6' 20230131 (890-4002-9), L-20-S-0-6' 20230131 (890-4002-10), L-21-S-0-6' 20230131 (890-4002-11), C-1-S-0-6' 20230131 (890-4002-12), L-1-S-0-6' 20230131 (890-4002-13), L-2-S-0-6' 20230131 (890-4002-14), L-3-S-0-6' 20230131 (890-4002-15), L-5-S-0-6' 20230131 (890-4002-16), L-6-S-0-6' 20230131 (890-4002-17), L-7-S-0-6' 20230131 (890-4002-18), L-8-S-0-6' 20230131 (890-4002-19), L-9-S-0-6' 20230131 (890-4002-20), L-10-S-0-6' 20230131 (890-4002-21), G-44-S-0-6' 20230131 (890-4002-22) and G-45-S-0-6' 20230131 (890-4002-23).

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

Narrative

Job Narrative
890-4009-1

Receipt
The sample was received on 2/2/2023 4:04 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: G-55-S-1'-20230202 (890-4009-1).

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

Narrative

Job Narrative
890-4069-1

Receipt
The samples were received on 2/8/2023 4:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: G-61-S-06'-20230802 (890-4069-1), G-62-S-0-6'-20230802 (890-4069-2), G-58-S-0-6'-20230802 (890-4069-3), G-59-S-0-06'-20230802 (890-4069-4), G-60-S-0-6'-20230802 (890-4069-5) and G-63-S-0-6'-20230802 (890-4069-6).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: G-61-S-06'-20230802 (890-4069-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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: Surrogate recovery for the following samples were outside control limits: G-61-S-06'-20230802 (890-4069-1), G-62-S-0-6'-20230802 (890-4069-2), G-58-S-0-6'-20230802 (890-4069-3), (890-4069-A-1-G MS) and (890-4069-A-1-H 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 sample was outside control limits: G-63-S-0-6'-20230802 (890-4069-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-46071 and analytical batch 880-46062 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46071 and analytical batch 880-46062 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-46071 and analytical batch 880-46062. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

Narrative

Job Narrative
890-4177-1

REVISION

The report being provided is a revision of the original report sent on 3/1/2023. The report (revision 1) is being revised due to Revised report to create merged PDF and EDD for the site..

Report revision history

Receipt
The samples were received on 2/22/2023 3:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1-S-1'-20230223 (890-4177-1) and S-1-S-2'-20230223 (890-4177-2).

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

Laboratory: Eurofins Midland

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Narrative

Job Narrative
880-24087-1

Receipt
The samples were received on 1/25/2023 11:47 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 2.1°C

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

Narrative

Job Narrative
880-24257-1

Receipt
The samples were received on 2/2/2023 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

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

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

Narrative

Job Narrative
880-24739-1

REVISION

The report being provided is a revision of the original report sent on 2/15/2023. The report (revision 1) is being revised due to Activated on hold samples per client request.

Report revision history

Receipt
The samples were received on 2/14/2023 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: TW-1-S-0-0.5-230213 (880-24739-1), TW-1-S-4-5-230213 (880-24739-2), TW-1-S-10-230213 (880-24739-3), TW-1-S-15-230213 (880-24739-4), TW-1-S-20-230213 (880-24739-5), TW-1-S-25-230213 (880-24739-6), TW-1-S-30-230213 (880-24739-7), TW-1-S-35-230213 (880-24739-8), TW-1-S-40-230213 (880-24739-9) and TW-1-S-45230213 (880-24739-10).

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

GC Semi VOA

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Job ID: 890-4177-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46823 and analytical batch 880-46829 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

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

Narrative

Job Narrative
880-24871-1

Receipt
The samples were received on 2/17/2023 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

GC VOA
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.

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

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-3-S-0-6"-20230123 Lab Sample ID: 880-24087-1
Date Collected: 01/23/23 13:00 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		5.05	0.399	mg/Kg			01/29/23 12:49	1

Client Sample ID: G-1-S-0-6"-20230123 Lab Sample ID: 880-24087-2
Date Collected: 01/23/23 12:30 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.00	0.395	mg/Kg			01/29/23 13:03	1

Client Sample ID: G-2-S-0-6"-20230123 Lab Sample ID: 880-24087-3
Date Collected: 01/23/23 12:40 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.99	0.394	mg/Kg			01/29/23 13:08	1

Client Sample ID: G-11-S-0-6"-20230123 Lab Sample ID: 880-24087-4
Date Collected: 01/23/23 13:10 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.95	0.391	mg/Kg			01/29/23 13:13	1

Client Sample ID: G-12-S-0-6"-20230123 Lab Sample ID: 880-24087-5
Date Collected: 01/23/23 13:20 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		4.97	0.393	mg/Kg			01/29/23 13:18	1

Client Sample ID: G-14-S-0-6"-20230123 Lab Sample ID: 880-24087-6
Date Collected: 01/23/23 13:30 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		5.05	0.399	mg/Kg			01/29/23 13:33	1

Client Sample ID: G-25-S-0-6"-20230123 Lab Sample ID: 880-24087-7
Date Collected: 01/23/23 13:45 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		4.97	0.393	mg/Kg			01/29/23 13:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-26-S-0-6"-20230123 Lab Sample ID: 880-24087-8
Date Collected: 01/23/23 14:00 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.4		5.00	0.395	mg/Kg			01/29/23 13:42	1

Client Sample ID: G-27-S-0-6"-20230123 Lab Sample ID: 880-24087-9
Date Collected: 01/23/23 14:10 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.95	0.391	mg/Kg			01/29/23 13:47	1

Client Sample ID: G-28-S-0-6"-20230123 Lab Sample ID: 880-24087-10
Date Collected: 01/23/23 14:25 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		24.8	1.96	mg/Kg			01/29/23 13:52	5

Client Sample ID: G-31-S-0-6"-20230123 Lab Sample ID: 880-24087-11
Date Collected: 01/23/23 14:40 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.98	0.393	mg/Kg			01/29/23 13:56	1

Client Sample ID: G-32-S-20230123 Lab Sample ID: 880-24087-12
Date Collected: 01/23/23 14:55 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3850		25.0	1.98	mg/Kg			01/29/23 14:11	5

Client Sample ID: G-34-S-20230123 Lab Sample ID: 880-24087-13
Date Collected: 01/23/23 15:20 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		4.97	0.393	mg/Kg			01/29/23 14:16	1

Client Sample ID: G-7-S-20230123 Lab Sample ID: 880-24087-14
Date Collected: 01/23/23 15:40 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		5.04	0.398	mg/Kg			01/29/23 14:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-33-S-20230123 — Lab Sample ID: 880-24087-15
Date Collected: 01/23/23 15:30 **Matrix: Solid**
Date Received: 01/25/23 11:47

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.6		4.99	0.394	mg/Kg			01/29/23 14:35	1

Client Sample ID: G-35-S-0-6"-20230127 — Lab Sample ID: 880-24257-1
Date Collected: 01/27/23 13:00 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		5.01	0.396	mg/Kg			02/03/23 00:19	1

Client Sample ID: G-36-S-0-6"-20230127 — Lab Sample ID: 880-24257-2
Date Collected: 01/27/23 13:10 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		5.00	0.395	mg/Kg			02/03/23 00:25	1

Client Sample ID: G-37-S-0-6"-20230127 — Lab Sample ID: 880-24257-3
Date Collected: 01/27/23 13:20 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.40	J	5.00	0.395	mg/Kg			02/03/23 00:31	1

Client Sample ID: G-38-S-0-6"-20230127 — Lab Sample ID: 880-24257-4
Date Collected: 01/27/23 13:30 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432		5.02	0.397	mg/Kg			02/03/23 00:50	1

Client Sample ID: G-39-S-0-6"-20230127 — Lab Sample ID: 880-24257-5
Date Collected: 01/27/23 13:40 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		5.00	0.395	mg/Kg			02/03/23 00:56	1

Client Sample ID: G-41-S-0-6"-20230127 — Lab Sample ID: 880-24257-6
Date Collected: 01/27/23 13:50 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		4.98	0.393	mg/Kg			02/03/23 01:14	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-42-S-0-6"-20230127 Lab Sample ID: 880-24257-7

Date Collected: 01/27/23 14:00 **Matrix: Solid**
Date Received: 02/02/23 11:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.97	J	4.95	0.391	mg/Kg			02/03/23 01:20	1

Client Sample ID: TW-1-S-0-0.5-230213 Lab Sample ID: 880-24739-1

Date Collected: 02/13/23 08:30 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	975		25.0	1.98	mg/Kg			02/15/23 14:12	5

Client Sample ID: TW-1-S-4-5-230213 Lab Sample ID: 880-24739-2

Date Collected: 02/13/23 10:30 **Matrix: Solid**
Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/22/23 09:33	02/23/23 09:51	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/22/23 09:33	02/23/23 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/22/23 09:33*	*02/23/23 09:51*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*02/22/23 09:33*	*02/23/23 09:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			02/23/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.1	J	49.9	15.0	mg/Kg			02/22/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.1	J B	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/21/23 12:10	02/21/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*02/21/23 12:10*	*02/21/23 17:44*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/21/23 12:10*	*02/21/23 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.98	0.393	mg/Kg			02/15/23 14:26	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: TW-1-S-10-230213 Lab Sample ID: 880-24739-3
Date Collected: 02/13/23 10:40 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.95	0.391	mg/Kg			02/15/23 14:31	1

Client Sample ID: TW-1-S-15-230213 Lab Sample ID: 880-24739-4
Date Collected: 02/13/23 10:50 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485		4.96	0.392	mg/Kg			02/15/23 14:36	1

Client Sample ID: TW-1-S-20-230213 Lab Sample ID: 880-24739-5
Date Collected: 02/13/23 11:00 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		24.9	1.96	mg/Kg			02/15/23 14:40	5

Client Sample ID: TW-1-S-25-230213 Lab Sample ID: 880-24739-6
Date Collected: 02/13/23 11:10 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4230		50.0	3.95	mg/Kg			02/15/23 14:54	10

Client Sample ID: TW-1-S-30-230213 Lab Sample ID: 880-24739-7
Date Collected: 02/13/23 11:20 **Matrix: Solid**
Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/22/23 09:33	02/23/23 10:12	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		02/22/23 09:33	02/23/23 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/22/23 09:33*	*02/23/23 10:12*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*02/22/23 09:33*	*02/23/23 10:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			02/23/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	14.9	mg/Kg			02/22/23 16:01	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: TW-1-S-30-230213 Lab Sample ID: 880-24739-7

Date Collected: 02/13/23 11:20 **Matrix: Solid**
Date Received: 02/14/23 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/21/23 12:10	02/21/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*02/21/23 12:10*	*02/21/23 18:06*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/21/23 12:10*	*02/21/23 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4710		49.8	3.93	mg/Kg			02/15/23 14:59	10

Client Sample ID: TW-1-S-35-230213 Lab Sample ID: 880-24739-8

Date Collected: 02/13/23 11:30 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		25.0	1.97	mg/Kg			02/15/23 15:04	5

Client Sample ID: TW-1-S-40-230213 Lab Sample ID: 880-24739-9

Date Collected: 02/13/23 11:40 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		5.01	0.396	mg/Kg			02/15/23 15:08	1

Client Sample ID: TW-1-S-45230213 Lab Sample ID: 880-24739-10

Date Collected: 02/13/23 11:50 **Matrix: Solid**
Date Received: 02/14/23 16:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		4.98	0.393	mg/Kg			02/15/23 15:13	1

Client Sample ID: TW-1-W-230216 Lab Sample ID: 880-24871-1

Date Collected: 02/16/23 09:35 **Matrix: Water**
Date Received: 02/17/23 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 20:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 20:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 20:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 20:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 20:01	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*		*02/20/23 20:01*	*1*

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: TW-1-W-230216 Lab Sample ID: 880-24871-1
Date Collected: 02/16/23 09:35 **Matrix: Water**
Date Received: 02/17/23 08:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*02/20/23 20:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10400**		50.0	34.6	mg/L			02/17/23 15:14	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**15100**		500	500	mg/L			02/17/23 12:22	1

Client Sample ID: TW-2-W-230216 Lab Sample ID: 880-24871-2
Date Collected: 02/16/23 10:00 **Matrix: Water**
Date Received: 02/17/23 08:45

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.6**		2.50	1.73	mg/L			02/17/23 15:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**328**		50.0	50.0	mg/L			02/17/23 12:22	1

Client Sample ID: G-44-S-0-6' 20230131 Lab Sample ID: 890-4002-22
Date Collected: 01/31/23 15:00 **Matrix: Solid**
Date Received: 01/31/23 16:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			02/03/23 20:45	1

Client Sample ID: G-45-S-0-6' 20230131 Lab Sample ID: 890-4002-23
Date Collected: 01/31/23 15:10 **Matrix: Solid**
Date Received: 01/31/23 16:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.16**		5.02		mg/Kg			02/03/23 20:52	1

Client Sample ID: G-55-S-1'-20230202 Lab Sample ID: 890-4009-1
Date Collected: 02/02/23 14:30 **Matrix: Solid**
Date Received: 02/02/23 16:04

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		5.00		mg/Kg			02/06/23 12:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-61-S-06'-20230802 Lab Sample ID: 890-4069-1

Date Collected: 02/08/23 14:20 **Matrix: Solid**
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*02/10/23 15:23*	*02/11/23 16:50*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/10/23 15:23*	*02/11/23 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/12/23 22:27*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/12/23 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			02/13/23 09:11	1

Client Sample ID: G-62-S-0-6'-20230802 Lab Sample ID: 890-4069-2

Date Collected: 02/08/23 14:30 **Matrix: Solid**
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 15:23	02/11/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:10*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:10*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-62-S-0-6'-20230802

Lab Sample ID: 890-4069-2
Matrix: Solid
Date Collected: 02/08/23 14:30
Date Received: 02/08/23 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 23:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/12/23 09:13	02/12/23 23:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*02/12/23 09:13*	*02/12/23 23:32*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/12/23 23:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			02/13/23 09:30	1

Client Sample ID: G-58-S-0-6'-20230802

Lab Sample ID: 890-4069-3
Matrix: Solid
Date Collected: 02/08/23 13:50
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:31*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Client Sample ID: G-58-S-0-6'-20230802 Lab Sample ID: 890-4069-3

Date Collected: 02/08/23 13:50 **Matrix: Solid**
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/12/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/12/23 23:53*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/12/23 23:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.9**		5.00		mg/Kg			02/13/23 09:36	1

Client Sample ID: G-59-S-0-06'-20230802 Lab Sample ID: 890-4069-4

Date Collected: 02/08/23 14:00 **Matrix: Solid**
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/10/23 15:23	02/11/23 17:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/10/23 15:23	02/11/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:51*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/10/23 15:23*	*02/11/23 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/12/23 09:13*	*02/13/23 00:14*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/12/23 09:13*	*02/13/23 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.8**		4.95		mg/Kg			02/13/23 09:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-60-S-0-6'-20230802

Lab Sample ID: 890-4069-5
Matrix: Solid
Date Collected: 02/08/23 14:10
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:23	02/11/23 18:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/23 15:23	02/11/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 15:23*	*02/11/23 18:11*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/10/23 15:23*	*02/11/23 18:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:13	02/13/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/12/23 09:13*	*02/13/23 00:36*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/12/23 09:13*	*02/13/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			02/13/23 09:48	1

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6
Matrix: Solid
Date Collected: 02/08/23 14:40
Date Received: 02/08/23 16:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:23	02/11/23 18:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:23	02/11/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*02/10/23 15:23*	*02/11/23 18:32*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/10/23 15:23*	*02/11/23 18:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6
Matrix: Solid
Date Collected: 02/08/23 14:40
Date Received: 02/08/23 16:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:13	02/13/23 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 00:57*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/12/23 09:13*	*02/13/23 00:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			02/13/23 10:07	1

Client Sample ID: S-1-S-1'-20230223

Lab Sample ID: 890-4177-1
Matrix: Solid
Date Collected: 02/22/23 14:00
Date Received: 02/22/23 15:59

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.1		5.05		mg/Kg			02/28/23 12:54	1

Client Sample ID: S-1-S-2'-20230223

Lab Sample ID: 890-4177-2
Matrix: Solid
Date Collected: 02/22/23 14:10
Date Received: 02/22/23 15:59

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357		4.97		mg/Kg			02/28/23 12:59	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24739-2	TW-1-S-4-5-230213	133 S1+	117
880-24739-7	TW-1-S-30-230213	116	114
890-4069-1	G-61-S-06'-20230802	65 S1-	82
890-4069-2	G-62-S-0-6'-20230802	94	84
890-4069-3	G-58-S-0-6'-20230802	96	84
890-4069-4	G-59-S-0-06'-20230802	99	84
890-4069-5	G-60-S-0-6'-20230802	93	84
890-4069-6	G-63-S-0-6'-20230802	88	81
LCS 880-46022/1-A	Lab Control Sample	123	106
LCS 880-46933/1-A	Lab Control Sample	110	113
LCSD 880-46022/2-A	Lab Control Sample Dup	110	100
LCSD 880-46933/2-A	Lab Control Sample Dup	109	113
MB 880-46022/5-A	Method Blank	79	92
MB 880-46926/8	Method Blank	105	105
MB 880-46933/5-A	Method Blank	105	104

Surrogate Legend

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

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24332-A-5 MB	Method Blank	141 S1+	99
880-24871-1	TW-1-W-230216	150 S1+	98
LCS 880-46681/3	Lab Control Sample	131 S1+	100
LCSD 880-46681/4	Lab Control Sample Dup	127	102
MB 880-46681/8	Method Blank	136 S1+	98

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24739-2	TW-1-S-4-5-230213	100	97
880-24739-7	TW-1-S-30-230213	89	87
890-4069-1	G-61-S-06'-20230802	57 S1-	57 S1-
890-4069-1 MS	G-61-S-06'-20230802	70	65 S1-
890-4069-1 MSD	G-61-S-06'-20230802	68 S1-	68 S1-
890-4069-2	G-62-S-0-6'-20230802	72	69 S1-
890-4069-3	G-58-S-0-6'-20230802	61 S1-	58 S1-
890-4069-4	G-59-S-0-06'-20230802	73	73
890-4069-5	G-60-S-0-6'-20230802	74	73

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-4069-6	G-63-S-0-6'-20230802	57 S1-	60 S1-								
LCS 880-46071/2-A	Lab Control Sample	89	92								
LCS 880-46823/2-A	Lab Control Sample	127	129								
LCSD 880-46071/3-A	Lab Control Sample Dup	81	78								
LCSD 880-46823/3-A	Lab Control Sample Dup	114	108								
MB 880-46071/1-A	Method Blank	77	77								
MB 880-46823/1-A	Method Blank	104	108								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46022/5-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*

Lab Sample ID: LCS 880-46022/1-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09910		mg/Kg		99	70 - 130
Toluene	0.100	0.09313		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-46022/2-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	11	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	14	35
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2306		mg/Kg		115	70 - 130	4	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-24332-A-5 MB
Matrix: Water
Analysis Batch: 46681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 18:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 18:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: 880-24332-A-5 MB
Matrix: Water
Analysis Batch: 46681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 18:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 18:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 18:39	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*		*02/20/23 18:39*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*02/20/23 18:39*	*1*

Lab Sample ID: MB 880-46681/8
Matrix: Water
Analysis Batch: 46681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 13:17	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 13:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 13:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 13:17	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 13:17	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*		*02/20/23 13:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*02/20/23 13:17*	*1*

Lab Sample ID: LCS 880-46681/3
Matrix: Water
Analysis Batch: 46681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1179		mg/L		118	70 - 130
Toluene	0.100	0.1154		mg/L		115	70 - 130
Ethylbenzene	0.100	0.1145		mg/L		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2387		mg/L		119	70 - 130
o-Xylene	0.100	0.1159		mg/L		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-46681/4
Matrix: Water
Analysis Batch: 46681

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1172		mg/L		117	70 - 130	1	20
Toluene	0.100	0.1118		mg/L		112	70 - 130	3	20
Ethylbenzene	0.100	0.1106		mg/L		111	70 - 130	3	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: LCSD 880-46681/4
Matrix: Water
Analysis Batch: 46681

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.2295		mg/L		115	70 - 130	4	20
o-Xylene			0.100	0.1128		mg/L		113	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-46926/8
Matrix: Solid
Analysis Batch: 46926

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg			02/22/23 13:39	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg			02/22/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg			02/22/23 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg			02/22/23 13:39	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg			02/22/23 13:39	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg			02/22/23 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/22/23 13:39*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*02/22/23 13:39*	*1*

Lab Sample ID: MB 880-46933/5-A
Matrix: Solid
Analysis Batch: 46926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/22/23 09:33	02/23/23 01:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/22/23 09:33*	*02/23/23 01:41*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/22/23 09:33*	*02/23/23 01:41*	*1*

Lab Sample ID: LCS 880-46933/1-A
Matrix: Solid
Analysis Batch: 46926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1029		mg/Kg		103	70 - 130		
Toluene			0.100	0.09799		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1052		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2284		mg/Kg		114	70 - 130		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: LCS 880-46933/1-A
Matrix: Solid
Analysis Batch: 46926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1113		mg/Kg		111	70 - 130		

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

Lab Sample ID: LCSD 880-46933/2-A
Matrix: Solid
Analysis Batch: 46926

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46933

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1044		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	3	35
Ethylbenzene			0.100	0.1051		mg/Kg		105	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2261		mg/Kg		113	70 - 130	1	35
o-Xylene			0.100	0.1105		mg/Kg		110	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

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

Lab Sample ID: MB 880-46071/1-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:13	02/12/23 21:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*02/12/23 09:13*	*02/12/23 21:21*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/12/23 09:13*	*02/12/23 21:21*	*1*

Lab Sample ID: LCS 880-46071/2-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46071

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	904.6		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			999	945.1		mg/Kg		95	70 - 130		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: LCS 880-46071/2-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46071

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-46071/3-A
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46071

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	764.6		mg/Kg		77	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			999	746.8	*1	mg/Kg		75	70 - 130	23	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-4069-1 MS
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: G-61-S-06'-20230802
Prep Type: Total/NA
Prep Batch: 46071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	<49.9	U F1	mg/Kg		0.8	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	998	<49.9	U F1	mg/Kg		0.8	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: 890-4069-1 MSD
Matrix: Solid
Analysis Batch: 46062

Client Sample ID: G-61-S-06'-20230802
Prep Type: Total/NA
Prep Batch: 46071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	<49.9	U F1	mg/Kg		0.8	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1 F2	997	<49.9	U F1 F2	mg/Kg		0.05	70 - 130	32	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	68	S1-	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

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

Lab Sample ID: MB 880-46823/1-A
Matrix: Solid
Analysis Batch: 46829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.20	J	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Diesel Range Organics (Over C10-C28)	32.59	J	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/21/23 08:38	02/21/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/21/23 08:38*	*02/21/23 08:17*	*1*
o-Terphenyl	*108*		*70 - 130*	*02/21/23 08:38*	*02/21/23 08:17*	*1*

Lab Sample ID: LCS 880-46823/2-A
Matrix: Solid
Analysis Batch: 46829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1212		mg/Kg		121	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: LCSD 880-46823/3-A
Matrix: Solid
Analysis Batch: 46829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	857.5		mg/Kg		86	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	955.2	*1	mg/Kg		96	70 - 130	24	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46609/3
Matrix: Water
Analysis Batch: 46609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	0.346	mg/L			02/16/23 23:59	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-46609/4
Matrix: Water
Analysis Batch: 46609

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	25.30		mg/L		101	90 - 110		

Lab Sample ID: LCSD 880-46609/5
Matrix: Water
Analysis Batch: 46609

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			25.0	25.37		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 880-44947/1-A
Matrix: Solid
Analysis Batch: 44964

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			01/29/23 12:35	1

Lab Sample ID: LCS 880-44947/2-A
Matrix: Solid
Analysis Batch: 44964

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.6		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-44947/3-A
Matrix: Solid
Analysis Batch: 44964

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-24087-1 MS
Matrix: Solid
Analysis Batch: 44964

Client Sample ID: G-3-S-0-6"-20230123
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	63.1		253	300.2		mg/Kg		94	90 - 110		

Lab Sample ID: 880-24087-1 MSD
Matrix: Solid
Analysis Batch: 44964

Client Sample ID: G-3-S-0-6"-20230123
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.1		253	333.9		mg/Kg		107	90 - 110	11	20

Lab Sample ID: 880-24087-11 MS
Matrix: Solid
Analysis Batch: 44964

Client Sample ID: G-31-S-0-6"-20230123
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	28.8		249	282.3		mg/Kg		102	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-24087-11 MSD — **Client Sample ID: G-31-S-0-6"-20230123**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 44964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.8		249	280.1		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-45237/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			02/02/23 22:46	1

Lab Sample ID: LCS 880-45237/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-45237/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-24257-3 MS — **Client Sample ID: G-37-S-0-6"-20230127**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.40	J	250	266.6		mg/Kg		106	90 - 110

Lab Sample ID: 880-24257-3 MSD — **Client Sample ID: G-37-S-0-6"-20230127**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.40	J	250	267.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-45276/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/03/23 19:19	1

Lab Sample ID: LCS 880-45276/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	273.0		mg/Kg		109	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-45276/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45421

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.5		mg/Kg		105	90 - 110	4	20

Lab Sample ID: MB 880-45411/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/06/23 12:03	1

Lab Sample ID: LCS 880-45411/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45591

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-45411/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45591

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.7		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-4009-1 MS — **Client Sample ID: G-55-S-1'-20230202**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100		250	346.7		mg/Kg		99	90 - 110		

Lab Sample ID: 890-4009-1 MSD — **Client Sample ID: G-55-S-1'-20230202**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 45591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		250	348.1		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-45996/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/13/23 08:53	1

Lab Sample ID: LCS 880-45996/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.8		mg/Kg		95	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-45996/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46048

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4069-1 MS — **Client Sample ID: G-61-S-06'-20230802**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.02	U	251	276.2		mg/Kg		109	90 - 110		

Lab Sample ID: 890-4069-1 MSD — **Client Sample ID: G-61-S-06'-20230802**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U	251	276.2		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-46372/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			02/15/23 13:58	1

Lab Sample ID: LCS 880-46372/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46412

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-46372/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46412

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.5		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-24739-1 MS — **Client Sample ID: TW-1-S-0-0.5-230213**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	975		1250	2209		mg/Kg		99	90 - 110		

Lab Sample ID: 880-24739-1 MSD — **Client Sample ID: TW-1-S-0-0.5-230213**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	975		1250	2176		mg/Kg		96	90 - 110	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47345/1-A
Matrix: Solid
Analysis Batch: 47420

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/28/23 08:00	1

Lab Sample ID: LCS 880-47345/2-A
Matrix: Solid
Analysis Batch: 47420

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.1		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-47345/3-A
Matrix: Solid
Analysis Batch: 47420

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.1		mg/Kg		94	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-46599/1
Matrix: Water
Analysis Batch: 46599

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/17/23 12:22	1

Lab Sample ID: LCS 880-46599/2
Matrix: Water
Analysis Batch: 46599

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	956.0		mg/L		96	80 - 120		

Lab Sample ID: LCSD 880-46599/3
Matrix: Water
Analysis Batch: 46599

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1048		mg/L		105	80 - 120	9	10

Lab Sample ID: 880-24871-1 DU
Matrix: Water
Analysis Batch: 46599

Client Sample ID: TW-1-W-230216
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	15100			14130		mg/L				7	10

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC VOA

Prep Batch: 46022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	5035	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	5035	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	5035	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	5035	
MB 880-46022/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 46060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8021B	46022
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8021B	46022
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8021B	46022
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8021B	46022
MB 880-46022/5-A	Method Blank	Total/NA	Solid	8021B	46022
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	8021B	46022
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46022

Analysis Batch: 46230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	Total BTEX	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	Total BTEX	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	Total BTEX	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	Total BTEX	

Analysis Batch: 46681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	8021B	
880-24332-A-5 MB	Method Blank	Total/NA	Water	8021B	
MB 880-46681/8	Method Blank	Total/NA	Water	8021B	
LCS 880-46681/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-46681/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 46818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	Total BTEX	

Analysis Batch: 46926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8021B	46933
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8021B	46933
MB 880-46926/8	Method Blank	Total/NA	Solid	8021B	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	8021B	46933
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	8021B	46933
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46933

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC VOA

Prep Batch: 46933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	5030B	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	5030B	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 47056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	Total BTEX	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8015B NM	46071
MB 880-46071/1-A	Method Blank	Total/NA	Solid	8015B NM	46071
LCS 880-46071/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46071
LCSD 880-46071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46071
890-4069-1 MS	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071
890-4069-1 MSD	G-61-S-06'-20230802	Total/NA	Solid	8015B NM	46071

Prep Batch: 46071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8015NM Prep	
MB 880-46071/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46071/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4069-1 MS	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	
890-4069-1 MSD	G-61-S-06'-20230802	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Total/NA	Solid	8015 NM	
890-4069-2	G-62-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-3	G-58-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-4	G-59-S-0-06'-20230802	Total/NA	Solid	8015 NM	
890-4069-5	G-60-S-0-6'-20230802	Total/NA	Solid	8015 NM	
890-4069-6	G-63-S-0-6'-20230802	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

GC Semi VOA

Prep Batch: 46823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015NM Prep	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015NM Prep	
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015B NM	46823
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015B NM	46823
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015B NM	46823
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46823
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46823

Analysis Batch: 46962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-2	TW-1-S-4-5-230213	Total/NA	Solid	8015 NM	
880-24739-7	TW-1-S-30-230213	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-1	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-2	G-1-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-3	G-2-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-4	G-11-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-5	G-12-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-6	G-14-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-7	G-25-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-8	G-26-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-9	G-27-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-10	G-28-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-12	G-32-S-20230123	Soluble	Solid	DI Leach	
880-24087-13	G-34-S-20230123	Soluble	Solid	DI Leach	
880-24087-14	G-7-S-20230123	Soluble	Solid	DI Leach	
880-24087-15	G-33-S-20230123	Soluble	Solid	DI Leach	
MB 880-44947/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44947/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44947/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24087-1 MS	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-1 MSD	G-3-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11 MS	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	
880-24087-11 MSD	G-31-S-0-6"-20230123	Soluble	Solid	DI Leach	

Analysis Batch: 44964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-1	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-2	G-1-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-3	G-2-S-0-6"-20230123	Soluble	Solid	300.0	44947

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 44964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24087-4	G-11-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-5	G-12-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-6	G-14-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-7	G-25-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-8	G-26-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-9	G-27-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-10	G-28-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-12	G-32-S-20230123	Soluble	Solid	300.0	44947
880-24087-13	G-34-S-20230123	Soluble	Solid	300.0	44947
880-24087-14	G-7-S-20230123	Soluble	Solid	300.0	44947
880-24087-15	G-33-S-20230123	Soluble	Solid	300.0	44947
MB 880-44947/1-A	Method Blank	Soluble	Solid	300.0	44947
LCS 880-44947/2-A	Lab Control Sample	Soluble	Solid	300.0	44947
LCSD 880-44947/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44947
880-24087-1 MS	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-1 MSD	G-3-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11 MS	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947
880-24087-11 MSD	G-31-S-0-6"-20230123	Soluble	Solid	300.0	44947

Leach Batch: 45237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-2	G-36-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-3	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-4	G-38-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-5	G-39-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-6	G-41-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-7	G-42-S-0-6"-20230127	Soluble	Solid	DI Leach	
MB 880-45237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24257-3 MS	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	
880-24257-3 MSD	G-37-S-0-6"-20230127	Soluble	Solid	DI Leach	

Leach Batch: 45276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-22	G-44-S-0-6' 20230131	Soluble	Solid	DI Leach	
890-4002-23	G-45-S-0-6' 20230131	Soluble	Solid	DI Leach	
MB 880-45276/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45276/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45276/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 45293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-2	G-36-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-3	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-4	G-38-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-5	G-39-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-6	G-41-S-0-6"-20230127	Soluble	Solid	300.0	45237

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 45293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-7	G-42-S-0-6"-20230127	Soluble	Solid	300.0	45237
MB 880-45237/1-A	Method Blank	Soluble	Solid	300.0	45237
LCS 880-45237/2-A	Lab Control Sample	Soluble	Solid	300.0	45237
LCSD 880-45237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45237
880-24257-3 MS	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237
880-24257-3 MSD	G-37-S-0-6"-20230127	Soluble	Solid	300.0	45237

Leach Batch: 45411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4009-1	G-55-S-1'-20230202	Soluble	Solid	DI Leach	
MB 880-45411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4009-1 MS	G-55-S-1'-20230202	Soluble	Solid	DI Leach	
890-4009-1 MSD	G-55-S-1'-20230202	Soluble	Solid	DI Leach	

Analysis Batch: 45421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4002-22	G-44-S-0-6' 20230131	Soluble	Solid	300.0	45276
890-4002-23	G-45-S-0-6' 20230131	Soluble	Solid	300.0	45276
MB 880-45276/1-A	Method Blank	Soluble	Solid	300.0	45276
LCS 880-45276/2-A	Lab Control Sample	Soluble	Solid	300.0	45276
LCSD 880-45276/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45276

Analysis Batch: 45591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4009-1	G-55-S-1'-20230202	Soluble	Solid	300.0	45411
MB 880-45411/1-A	Method Blank	Soluble	Solid	300.0	45411
LCS 880-45411/2-A	Lab Control Sample	Soluble	Solid	300.0	45411
LCSD 880-45411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45411
890-4009-1 MS	G-55-S-1'-20230202	Soluble	Solid	300.0	45411
890-4009-1 MSD	G-55-S-1'-20230202	Soluble	Solid	300.0	45411

Leach Batch: 45996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Soluble	Solid	DI Leach	
890-4069-2	G-62-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-3	G-58-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-4	G-59-S-0-06'-20230802	Soluble	Solid	DI Leach	
890-4069-5	G-60-S-0-6'-20230802	Soluble	Solid	DI Leach	
890-4069-6	G-63-S-0-6'-20230802	Soluble	Solid	DI Leach	
MB 880-45996/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45996/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45996/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4069-1 MS	G-61-S-06'-20230802	Soluble	Solid	DI Leach	
890-4069-1 MSD	G-61-S-06'-20230802	Soluble	Solid	DI Leach	

Analysis Batch: 46048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-1	G-61-S-06'-20230802	Soluble	Solid	300.0	45996
890-4069-2	G-62-S-0-6'-20230802	Soluble	Solid	300.0	45996

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 46048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4069-3	G-58-S-0-6'-20230802	Soluble	Solid	300.0	45996
890-4069-4	G-59-S-0-06'-20230802	Soluble	Solid	300.0	45996
890-4069-5	G-60-S-0-6'-20230802	Soluble	Solid	300.0	45996
890-4069-6	G-63-S-0-6'-20230802	Soluble	Solid	300.0	45996
MB 880-45996/1-A	Method Blank	Soluble	Solid	300.0	45996
LCS 880-45996/2-A	Lab Control Sample	Soluble	Solid	300.0	45996
LCSD 880-45996/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45996
890-4069-1 MS	G-61-S-06'-20230802	Soluble	Solid	300.0	45996
890-4069-1 MSD	G-61-S-06'-20230802	Soluble	Solid	300.0	45996

Leach Batch: 46372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-1	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	
880-24739-2	TW-1-S-4-5-230213	Soluble	Solid	DI Leach	
880-24739-3	TW-1-S-10-230213	Soluble	Solid	DI Leach	
880-24739-4	TW-1-S-15-230213	Soluble	Solid	DI Leach	
880-24739-5	TW-1-S-20-230213	Soluble	Solid	DI Leach	
880-24739-6	TW-1-S-25-230213	Soluble	Solid	DI Leach	
880-24739-7	TW-1-S-30-230213	Soluble	Solid	DI Leach	
880-24739-8	TW-1-S-35-230213	Soluble	Solid	DI Leach	
880-24739-9	TW-1-S-40-230213	Soluble	Solid	DI Leach	
880-24739-10	TW-1-S-45230213	Soluble	Solid	DI Leach	
MB 880-46372/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46372/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46372/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24739-1 MS	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	
880-24739-1 MSD	TW-1-S-0-0.5-230213	Soluble	Solid	DI Leach	

Analysis Batch: 46412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24739-1	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372
880-24739-2	TW-1-S-4-5-230213	Soluble	Solid	300.0	46372
880-24739-3	TW-1-S-10-230213	Soluble	Solid	300.0	46372
880-24739-4	TW-1-S-15-230213	Soluble	Solid	300.0	46372
880-24739-5	TW-1-S-20-230213	Soluble	Solid	300.0	46372
880-24739-6	TW-1-S-25-230213	Soluble	Solid	300.0	46372
880-24739-7	TW-1-S-30-230213	Soluble	Solid	300.0	46372
880-24739-8	TW-1-S-35-230213	Soluble	Solid	300.0	46372
880-24739-9	TW-1-S-40-230213	Soluble	Solid	300.0	46372
880-24739-10	TW-1-S-45230213	Soluble	Solid	300.0	46372
MB 880-46372/1-A	Method Blank	Soluble	Solid	300.0	46372
LCS 880-46372/2-A	Lab Control Sample	Soluble	Solid	300.0	46372
LCSD 880-46372/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46372
880-24739-1 MS	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372
880-24739-1 MSD	TW-1-S-0-0.5-230213	Soluble	Solid	300.0	46372

Analysis Batch: 46609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	300.0	
880-24871-2	TW-2-W-230216	Total/NA	Water	300.0	
MB 880-46609/3	Method Blank	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

HPLC/IC (Continued)

Analysis Batch: 46609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46609/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-46609/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Leach Batch: 47345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4177-1	S-1-S-1'-20230223	Soluble	Solid	DI Leach	
890-4177-2	S-1-S-2'-20230223	Soluble	Solid	DI Leach	
MB 880-47345/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47345/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47345/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 47420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4177-1	S-1-S-1'-20230223	Soluble	Solid	300.0	47345
890-4177-2	S-1-S-2'-20230223	Soluble	Solid	300.0	47345
MB 880-47345/1-A	Method Blank	Soluble	Solid	300.0	47345
LCS 880-47345/2-A	Lab Control Sample	Soluble	Solid	300.0	47345
LCSD 880-47345/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47345

General Chemistry

Analysis Batch: 45407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24257-1	G-35-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-2	G-36-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-3	G-37-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-4	G-38-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-5	G-39-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-6	G-41-S-0-6"-20230127	Total/NA	Solid	D2216	
880-24257-7	G-42-S-0-6"-20230127	Total/NA	Solid	D2216	
MB 880-45407/1	Method Blank	Total/NA	Solid	D2216	
880-24257-1 DU	G-35-S-0-6"-20230127	Total/NA	Solid	D2216	

Analysis Batch: 46599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24871-1	TW-1-W-230216	Total/NA	Water	SM 2540C	
880-24871-2	TW-2-W-230216	Total/NA	Water	SM 2540C	
MB 880-46599/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-46599/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-46599/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-24871-1 DU	TW-1-W-230216	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-3-S-0-6"-20230123
Date Collected: 01/23/23 13:00
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 12:49	CH	EET MID

Client Sample ID: G-1-S-0-6"-20230123
Date Collected: 01/23/23 12:30
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:03	CH	EET MID

Client Sample ID: G-2-S-0-6"-20230123
Date Collected: 01/23/23 12:40
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:08	CH	EET MID

Client Sample ID: G-11-S-0-6"-20230123
Date Collected: 01/23/23 13:10
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:13	CH	EET MID

Client Sample ID: G-12-S-0-6"-20230123
Date Collected: 01/23/23 13:20
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:18	CH	EET MID

Client Sample ID: G-14-S-0-6"-20230123
Date Collected: 01/23/23 13:30
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:33	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-25-S-0-6"-20230123
Date Collected: 01/23/23 13:45
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:37	CH	EET MID

Client Sample ID: G-26-S-0-6"-20230123
Date Collected: 01/23/23 14:00
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:42	CH	EET MID

Client Sample ID: G-27-S-0-6"-20230123
Date Collected: 01/23/23 14:10
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:47	CH	EET MID

Client Sample ID: G-28-S-0-6"-20230123
Date Collected: 01/23/23 14:25
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		5			44964	01/29/23 13:52	CH	EET MID

Client Sample ID: G-31-S-0-6"-20230123
Date Collected: 01/23/23 14:40
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 13:56	CH	EET MID

Client Sample ID: G-32-S-20230123
Date Collected: 01/23/23 14:55
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		5			44964	01/29/23 14:11	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-34-S-20230123
Date Collected: 01/23/23 15:20
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:16	CH	EET MID

Client Sample ID: G-7-S-20230123
Date Collected: 01/23/23 15:40
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:30	CH	EET MID

Client Sample ID: G-33-S-20230123
Date Collected: 01/23/23 15:30
Date Received: 01/25/23 11:47

Lab Sample ID: 880-24087-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	44947	01/27/23 17:08	KS	EET MID
Soluble	Analysis	300.0		1			44964	01/29/23 14:35	CH	EET MID

Client Sample ID: G-35-S-0-6"-20230127
Date Collected: 01/27/23 13:00
Date Received: 02/02/23 11:50

Lab Sample ID: 880-24257-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:19	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-36-S-0-6"-20230127
Date Collected: 01/27/23 13:10
Date Received: 02/02/23 11:50

Lab Sample ID: 880-24257-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:25	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-37-S-0-6"-20230127
Date Collected: 01/27/23 13:20
Date Received: 02/02/23 11:50

Lab Sample ID: 880-24257-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:31	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-38-S-0-6"-20230127
Lab Sample ID: 880-24257-4
Date Collected: 01/27/23 13:30
Matrix: Solid
Date Received: 02/02/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:50	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-39-S-0-6"-20230127
Lab Sample ID: 880-24257-5
Date Collected: 01/27/23 13:40
Matrix: Solid
Date Received: 02/02/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 00:56	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-41-S-0-6"-20230127
Lab Sample ID: 880-24257-6
Date Collected: 01/27/23 13:50
Matrix: Solid
Date Received: 02/02/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 01:14	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: G-42-S-0-6"-20230127
Lab Sample ID: 880-24257-7
Date Collected: 01/27/23 14:00
Matrix: Solid
Date Received: 02/02/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	45237	02/02/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			45293	02/03/23 01:20	CH	EET MID
Total/NA	Analysis	D2216		1			45407	02/03/23 14:55	KS	EET MID

Client Sample ID: TW-1-S-0-0.5-230213
Lab Sample ID: 880-24739-1
Date Collected: 02/13/23 08:30
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 14:12	CH	EET MID

Client Sample ID: TW-1-S-4-5-230213
Lab Sample ID: 880-24739-2
Date Collected: 02/13/23 10:30
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 09:51	AJ	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-4-5-230213
Date Collected: 02/13/23 10:30
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			47056	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46962	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46823	02/21/23 12:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 17:44	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:26	CH	EET MID

Client Sample ID: TW-1-S-10-230213
Date Collected: 02/13/23 10:40
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:31	CH	EET MID

Client Sample ID: TW-1-S-15-230213
Date Collected: 02/13/23 10:50
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 14:36	CH	EET MID

Client Sample ID: TW-1-S-20-230213
Date Collected: 02/13/23 11:00
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 14:40	CH	EET MID

Client Sample ID: TW-1-S-25-230213
Date Collected: 02/13/23 11:10
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		10			46412	02/15/23 14:54	CH	EET MID

Client Sample ID: TW-1-S-30-230213
Date Collected: 02/13/23 11:20
Date Received: 02/14/23 16:00

Lab Sample ID: 880-24739-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 10:12	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-1-S-30-230213
Lab Sample ID: 880-24739-7
Date Collected: 02/13/23 11:20
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			47056	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46962	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46823	02/21/23 12:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 18:06	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		10			46412	02/15/23 14:59	CH	EET MID

Client Sample ID: TW-1-S-35-230213
Lab Sample ID: 880-24739-8
Date Collected: 02/13/23 11:30
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		5			46412	02/15/23 15:04	CH	EET MID

Client Sample ID: TW-1-S-40-230213
Lab Sample ID: 880-24739-9
Date Collected: 02/13/23 11:40
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 15:08	CH	EET MID

Client Sample ID: TW-1-S-45230213
Lab Sample ID: 880-24739-10
Date Collected: 02/13/23 11:50
Matrix: Solid
Date Received: 02/14/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46372	02/15/23 09:23	KS	EET MID
Soluble	Analysis	300.0		1			46412	02/15/23 15:13	CH	EET MID

Client Sample ID: TW-1-W-230216
Lab Sample ID: 880-24871-1
Date Collected: 02/16/23 09:35
Matrix: Water
Date Received: 02/17/23 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	46681	02/20/23 20:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46818	02/20/23 20:22	AJ	EET MID
Total/NA	Analysis	300.0		100			46609	02/17/23 15:14	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	46599	02/17/23 12:22	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: TW-2-W-230216
Date Collected: 02/16/23 10:00
Date Received: 02/17/23 08:45

Lab Sample ID: 880-24871-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			46609	02/17/23 15:20	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	46599	02/17/23 12:22	CH	EET MID

Client Sample ID: G-44-S-0-6' 20230131
Date Collected: 01/31/23 15:00
Date Received: 01/31/23 16:12

Lab Sample ID: 890-4002-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	45276	02/02/23 15:16	KS	EET MID
Soluble	Analysis	300.0		1			45421	02/03/23 20:45	CH	EET MID

Client Sample ID: G-45-S-0-6' 20230131
Date Collected: 01/31/23 15:10
Date Received: 01/31/23 16:12

Lab Sample ID: 890-4002-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	45276	02/02/23 15:16	KS	EET MID
Soluble	Analysis	300.0		1			45421	02/03/23 20:52	CH	EET MID

Client Sample ID: G-55-S-1'-20230202
Date Collected: 02/02/23 14:30
Date Received: 02/02/23 16:04

Lab Sample ID: 890-4009-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	45411	02/03/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1			45591	02/06/23 12:17	CH	EET MID

Client Sample ID: G-61-S-06'-20230802
Date Collected: 02/08/23 14:20
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4069-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:11	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-62-S-0-6'-20230802
Date Collected: 02/08/23 14:30
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4069-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 23:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:30	CH	EET MID

Client Sample ID: G-58-S-0-6'-20230802
Date Collected: 02/08/23 13:50
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4069-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/12/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:36	CH	EET MID

Client Sample ID: G-59-S-0-06'-20230802
Date Collected: 02/08/23 14:00
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4069-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/13/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:42	CH	EET MID

Client Sample ID: G-60-S-0-6'-20230802
Date Collected: 02/08/23 14:10
Date Received: 02/08/23 16:01

Lab Sample ID: 890-4069-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Client Sample ID: G-60-S-0-6'-20230802

Lab Sample ID: 890-4069-5
Matrix: Solid
Date Collected: 02/08/23 14:10
Date Received: 02/08/23 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/13/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 09:48	CH	EET MID

Client Sample ID: G-63-S-0-6'-20230802

Lab Sample ID: 890-4069-6
Matrix: Solid
Date Collected: 02/08/23 14:40
Date Received: 02/08/23 16:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46060	02/11/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46230	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			46180	02/13/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46071	02/12/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46062	02/13/23 00:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45996	02/10/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46048	02/13/23 10:07	CH	EET MID

Client Sample ID: S-1-S-1'-20230223

Lab Sample ID: 890-4177-1
Matrix: Solid
Date Collected: 02/22/23 14:00
Date Received: 02/22/23 15:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	47345	02/27/23 15:41	KS	EET MID
Soluble	Analysis	300.0		1			47420	02/28/23 12:54	CH	EET MID

Client Sample ID: S-1-S-2'-20230223

Lab Sample ID: 890-4177-2
Matrix: Solid
Date Collected: 02/22/23 14:10
Date Received: 02/22/23 15:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	47345	02/27/23 15:41	KS	EET MID
Soluble	Analysis	300.0		1			47420	02/28/23 12:59	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 890-4177-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: 88001630

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 890-4177-1
SDG: 88001630

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24087-1	G-3-S-0-6"-20230123	Solid	01/23/23 13:00	01/25/23 11:47
880-24087-2	G-1-S-0-6"-20230123	Solid	01/23/23 12:30	01/25/23 11:47
880-24087-3	G-2-S-0-6"-20230123	Solid	01/23/23 12:40	01/25/23 11:47
880-24087-4	G-11-S-0-6"-20230123	Solid	01/23/23 13:10	01/25/23 11:47
880-24087-5	G-12-S-0-6"-20230123	Solid	01/23/23 13:20	01/25/23 11:47
880-24087-6	G-14-S-0-6"-20230123	Solid	01/23/23 13:30	01/25/23 11:47
880-24087-7	G-25-S-0-6"-20230123	Solid	01/23/23 13:45	01/25/23 11:47
880-24087-8	G-26-S-0-6"-20230123	Solid	01/23/23 14:00	01/25/23 11:47
880-24087-9	G-27-S-0-6"-20230123	Solid	01/23/23 14:10	01/25/23 11:47
880-24087-10	G-28-S-0-6"-20230123	Solid	01/23/23 14:25	01/25/23 11:47
880-24087-11	G-31-S-0-6"-20230123	Solid	01/23/23 14:40	01/25/23 11:47
880-24087-12	G-32-S-20230123	Solid	01/23/23 14:55	01/25/23 11:47
880-24087-13	G-34-S-20230123	Solid	01/23/23 15:20	01/25/23 11:47
880-24087-14	G-7-S-20230123	Solid	01/23/23 15:40	01/25/23 11:47
880-24087-15	G-33-S-20230123	Solid	01/23/23 15:30	01/25/23 11:47
880-24257-1	G-35-S-0-6"-20230127	Solid	01/27/23 13:00	02/02/23 11:50
880-24257-2	G-36-S-0-6"-20230127	Solid	01/27/23 13:10	02/02/23 11:50
880-24257-3	G-37-S-0-6"-20230127	Solid	01/27/23 13:20	02/02/23 11:50
880-24257-4	G-38-S-0-6"-20230127	Solid	01/27/23 13:30	02/02/23 11:50
880-24257-5	G-39-S-0-6"-20230127	Solid	01/27/23 13:40	02/02/23 11:50
880-24257-6	G-41-S-0-6"-20230127	Solid	01/27/23 13:50	02/02/23 11:50
880-24257-7	G-42-S-0-6"-20230127	Solid	01/27/23 14:00	02/02/23 11:50
880-24739-1	TW-1-S-0-0.5-230213	Solid	02/13/23 08:30	02/14/23 16:00
880-24739-2	TW-1-S-4-5-230213	Solid	02/13/23 10:30	02/14/23 16:00
880-24739-3	TW-1-S-10-230213	Solid	02/13/23 10:40	02/14/23 16:00
880-24739-4	TW-1-S-15-230213	Solid	02/13/23 10:50	02/14/23 16:00
880-24739-5	TW-1-S-20-230213	Solid	02/13/23 11:00	02/14/23 16:00
880-24739-6	TW-1-S-25-230213	Solid	02/13/23 11:10	02/14/23 16:00
880-24739-7	TW-1-S-30-230213	Solid	02/13/23 11:20	02/14/23 16:00
880-24739-8	TW-1-S-35-230213	Solid	02/13/23 11:30	02/14/23 16:00
880-24739-9	TW-1-S-40-230213	Solid	02/13/23 11:40	02/14/23 16:00
880-24739-10	TW-1-S-45230213	Solid	02/13/23 11:50	02/14/23 16:00
880-24871-1	TW-1-W-230216	Water	02/16/23 09:35	02/17/23 08:45
880-24871-2	TW-2-W-230216	Water	02/16/23 10:00	02/17/23 08:45
890-4002-22	G-44-S-0-6' 20230131	Solid	01/31/23 15:00	01/31/23 16:12
890-4002-23	G-45-S-0-6' 20230131	Solid	01/31/23 15:10	01/31/23 16:12
890-4009-1	G-55-S-1'-20230202	Solid	02/02/23 14:30	02/02/23 16:04
890-4069-1	G-61-S-06'-20230802	Solid	02/08/23 14:20	02/08/23 16:01
890-4069-2	G-62-S-0-6'-20230802	Solid	02/08/23 14:30	02/08/23 16:01
890-4069-3	G-58-S-0-6'-20230802	Solid	02/08/23 13:50	02/08/23 16:01
890-4069-4	G-59-S-0-06'-20230802	Solid	02/08/23 14:00	02/08/23 16:01
890-4069-5	G-60-S-0-6'-20230802	Solid	02/08/23 14:10	02/08/23 16:01
890-4069-6	G-63-S-0-6'-20230802	Solid	02/08/23 14:40	02/08/23 16:01
890-4177-1	S-1-S-1'-20230223	Solid	02/22/23 14:00	02/22/23 15:59
890-4177-2	S-1-S-2'-20230223	Solid	02/22/23 14:10	02/22/23 15:59

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Daniel Milne	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-5156-646.3
Client Contact: Justin Nixon	Phone: 432-999-2980	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~3 of 3~~ 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 5 Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com, Scott.Foord@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County	SSOW#:			

Analysis Requested

890-4177 Chain of Custody

Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
K - EDTA
L - EDA
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 90218, MOISTURE_2540G	8015MOD_NM - Full TPH	30248 - BTEX	Total Number of container	Special Instructions/Note:
			Preservation Code:				N	A	A		
S-1-S-1'-20230223	2-22-23	1400	G	Water ~~Solid~~			X	X	X	1	
S-1-S-2'-20230223	2-2-23	1410	G	Water ~~Solid~~			X	X	X	1	

AM 2-22-23

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 2-22-23 / 1600	Company: Arcadis	Received by:	Date/Time: 2.22.23 1559	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 11.6 / 11.0 -0.2 TMM-007

Ver: 01/16/2019

Received by OCD: 5/15/2024 3:02:47 PM

Released to Imaging: 6/3/2024 2:55:09 PM

3/24/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 890-4177-1
SDG Number: 88001630

Login Number: 4177
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 890-4177-1
SDG Number: 88001630

Login Number: 4177
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/24/23 10:52 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

Preliminary Data

PREPARED FOR

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

Generated 7/21/2023 10:14:07 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30743-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Preliminary Data

Generated
7/21/2023 10:14:07 AM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30743-1
SDG: Eddy County, NM

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Preliminary Data

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Qualifiers

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

HPLC/IC

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

Glossary

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

Preliminary Data

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Job ID: 880-30743-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30743-1

Receipt
The samples were received on 7/14/2023 11:07 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 2.7°C

GC VOA
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.

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

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-1-S-2'-20230713

Lab Sample ID: 880-30743-1
Date Collected: 07/13/23 10:00
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000409	U	0.00212	0.000409	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1
Toluene	<0.000484	U	0.00212	0.000484	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1
Ethylbenzene	<0.000600	U	0.00212	0.000600	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1
m-Xylene & p-Xylene	<0.00107	U	0.00425	0.00107	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1
o-Xylene	**0.000373**	**J**	0.00212	0.000365	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1
Xylenes, Total	<0.00107	U	0.00425	0.00107	mg/Kg	☼	07/17/23 13:55	07/20/23 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/17/23 13:55*	*07/20/23 11:42*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/17/23 13:55*	*07/20/23 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.6**		5.26	0.415	mg/Kg	☼		07/17/23 10:50	1

Client Sample ID: SW-2-S-2'-20230713

Lab Sample ID: 880-30743-2
Date Collected: 07/13/23 10:10
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1
Toluene	<0.000475	U	0.00208	0.000475	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1
Ethylbenzene	<0.000588	U	0.00208	0.000588	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	☼	07/17/23 13:55	07/20/23 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:02*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**466**		5.24	0.414	mg/Kg	☼		07/17/23 11:06	1

Client Sample ID: SW-3-S-2'-20230713

Lab Sample ID: 880-30743-3
Date Collected: 07/13/23 10:20
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000465**	**J**	0.00202	0.000388	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1
Toluene	**0.000475**	**J**	0.00202	0.000460	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1
o-Xylene	**0.000349**	**J**	0.00202	0.000347	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/17/23 13:55	07/20/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:23*	*1*

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-3-S-2'-20230713

Lab Sample ID: 880-30743-3
Date Collected: 07/13/23 10:20
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		5.05	0.399	mg/Kg	☼		07/17/23 11:11	1

Client Sample ID: SW-4-S-2'-20230713

Lab Sample ID: 880-30743-4
Date Collected: 07/13/23 10:30
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00204	0.000392	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1
Toluene	<0.000465	U	0.00204	0.000465	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1
m-Xylene & p-Xylene	0.00120	J	0.00408	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1
o-Xylene	0.000434	J	0.00204	0.000351	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1
Xylenes, Total	0.00163	J	0.00408	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*07/17/23 13:55*	*07/20/23 12:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.08	0.401	mg/Kg	☼		07/17/23 11:16	1

Client Sample ID: SW-5-S-2'-20230713

Lab Sample ID: 880-30743-5
Date Collected: 07/13/23 10:40
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000396	U	0.00206	0.000396	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1
Toluene	<0.000469	U	0.00206	0.000469	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1
Ethylbenzene	<0.000581	U	0.00206	0.000581	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1
o-Xylene	<0.000354	U	0.00206	0.000354	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/17/23 13:55	07/20/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:04*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.08	0.401	mg/Kg	☼		07/17/23 11:21	1

Client Sample ID: SW-6-S-2'-20230713

Lab Sample ID: 880-30743-6
Date Collected: 07/13/23 10:50
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00201	0.000386	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1
Toluene	<0.000457	U	0.00201	0.000457	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-6-S-2'-20230713

Lab Sample ID: 880-30743-6
Date Collected: 07/13/23 10:50
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	☼	07/17/23 13:55	07/20/23 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:25*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**333**		5.00	0.395	mg/Kg	☼		07/17/23 11:36	1

Client Sample ID: SW-7-S-2'-20230713

Lab Sample ID: 880-30743-7
Date Collected: 07/13/23 11:00
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:46*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/17/23 13:55*	*07/20/23 13:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**424**		5.07	0.401	mg/Kg	☼		07/17/23 11:42	1

Client Sample ID: SW-8-S-2'-20230713

Lab Sample ID: 880-30743-8
Date Collected: 07/13/23 11:10
Matrix: Solid
Date Received: 07/14/23 11:07
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1
Ethylbenzene	<0.000578	U	0.00205	0.000578	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/17/23 13:55	07/20/23 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/17/23 13:55*	*07/20/23 14:07*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*07/17/23 13:55*	*07/20/23 14:07*	*1*

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-8-S-2'-20230713
Date Collected: 07/13/23 11:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-8
Matrix: Solid
Percent Solids: 98.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		5.08	0.401	mg/Kg	☼		07/17/23 11:47	1

Preliminary Data

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30743-1	SW-1-S-2'-20230713	88	105
880-30743-1 MS	SW-1-S-2'-20230713	104	105
880-30743-1 MSD	SW-1-S-2'-20230713	112	104
880-30743-2	SW-2-S-2'-20230713	90	113
880-30743-3	SW-3-S-2'-20230713	88	118
880-30743-4	SW-4-S-2'-20230713	91	115
880-30743-5	SW-5-S-2'-20230713	90	116
880-30743-6	SW-6-S-2'-20230713	88	114
880-30743-7	SW-7-S-2'-20230713	85	113
880-30743-8	SW-8-S-2'-20230713	89	116
LCS 880-57844/1-A	Lab Control Sample	95	100
LCSD 880-57844/2-A	Lab Control Sample Dup	89	103
MB 880-57844/5-A	Method Blank	83	95

Surrogate Legend

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

Preliminary Data

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57844/5-A
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/17/23 13:55	07/20/23 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*07/17/23 13:55*	*07/20/23 11:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/17/23 13:55*	*07/20/23 11:20*	*1*

Lab Sample ID: LCS 880-57844/1-A
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.1080		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09607		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-57844/2-A
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.09470		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		91	70 - 130	6	35
o-Xylene	0.100	0.09070		mg/Kg		91	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-30743-1 MS
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713
Prep Type: Total/NA
Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000409	U	0.105	0.1092		mg/Kg	☼	104	70 - 130
Toluene	<0.000484	U	0.105	0.1095		mg/Kg	☼	104	70 - 130

Preliminary Data

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30743-1 MS
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713
Prep Type: Total/NA
Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000600	U	0.105	0.09676		mg/Kg	☼	92	70 - 130
m-Xylene & p-Xylene	<0.00107	U	0.210	0.1878		mg/Kg	☼	89	70 - 130
o-Xylene	0.000373	J	0.105	0.09491		mg/Kg	☼	90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-30743-1 MSD
Matrix: Solid
Analysis Batch: 58089

Client Sample ID: SW-1-S-2'-20230713
Prep Type: Total/NA
Prep Batch: 57844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000409	U	0.105	0.1017		mg/Kg	☼	97	70 - 130	7	35
Toluene	<0.000484	U	0.105	0.1123		mg/Kg	☼	107	70 - 130	3	35
Ethylbenzene	<0.000600	U	0.105	0.1027		mg/Kg	☼	98	70 - 130	6	35
m-Xylene & p-Xylene	<0.00107	U	0.210	0.2038		mg/Kg	☼	97	70 - 130	8	35
o-Xylene	0.000373	J	0.105	0.1027		mg/Kg	☼	97	70 - 130	8	35

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57698/1-A
Matrix: Solid
Analysis Batch: 57824

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/17/23 10:35	1

Lab Sample ID: LCS 880-57698/2-A
Matrix: Solid
Analysis Batch: 57824

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-57698/3-A
Matrix: Solid
Analysis Batch: 57824

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.5		mg/Kg		99	90 - 110	1	20

Preliminary Data

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30743-1 MS
Matrix: Solid
Analysis Batch: 57824

Client Sample ID: SW-1-S-2'-20230713
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	47.6		263	319.3		mg/Kg	☼	103	90 - 110		

Lab Sample ID: 880-30743-1 MSD
Matrix: Solid
Analysis Batch: 57824

Client Sample ID: SW-1-S-2'-20230713
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	47.6		263	318.0		mg/Kg	☼	103	90 - 110	0	20

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 57844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	5030B	
MB 880-57844/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30743-1 MS	SW-1-S-2'-20230713	Total/NA	Solid	5030B	
880-30743-1 MSD	SW-1-S-2'-20230713	Total/NA	Solid	5030B	

Analysis Batch: 58089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	8021B	57844
MB 880-57844/5-A	Method Blank	Total/NA	Solid	8021B	57844
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	8021B	57844
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57844
880-30743-1 MS	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844
880-30743-1 MSD	SW-1-S-2'-20230713	Total/NA	Solid	8021B	57844

HPLC/IC

Leach Batch: 57698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-2	SW-2-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-3	SW-3-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-4	SW-4-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-5	SW-5-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-6	SW-6-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-7	SW-7-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-8	SW-8-S-2'-20230713	Soluble	Solid	DI Leach	
MB 880-57698/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57698/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57698/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30743-1 MS	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	
880-30743-1 MSD	SW-1-S-2'-20230713	Soluble	Solid	DI Leach	

Analysis Batch: 57824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 57824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-2	SW-2-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-3	SW-3-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-4	SW-4-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-5	SW-5-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-6	SW-6-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-7	SW-7-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-8	SW-8-S-2'-20230713	Soluble	Solid	300.0	57698
MB 880-57698/1-A	Method Blank	Soluble	Solid	300.0	57698
LCS 880-57698/2-A	Lab Control Sample	Soluble	Solid	300.0	57698
LCSD 880-57698/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57698
880-30743-1 MS	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698
880-30743-1 MSD	SW-1-S-2'-20230713	Soluble	Solid	300.0	57698

General Chemistry

Analysis Batch: 57715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-1	SW-1-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-2	SW-2-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-3	SW-3-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-4	SW-4-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-5	SW-5-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-6	SW-6-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-7	SW-7-S-2'-20230713	Total/NA	Solid	D2216	
880-30743-8	SW-8-S-2'-20230713	Total/NA	Solid	D2216	
MB 880-57715/1	Method Blank	Total/NA	Solid	D2216	
880-30743-1 DU	SW-1-S-2'-20230713	Total/NA	Solid	D2216	

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-1-S-2'-20230713
Date Collected: 07/13/23 10:00
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-1-S-2'-20230713
Date Collected: 07/13/23 10:00
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-1
Matrix: Solid
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 10:50	SMC	EET MID

Client Sample ID: SW-2-S-2'-20230713
Date Collected: 07/13/23 10:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-2-S-2'-20230713
Date Collected: 07/13/23 10:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-2
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:06	SMC	EET MID

Client Sample ID: SW-3-S-2'-20230713
Date Collected: 07/13/23 10:20
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-3-S-2'-20230713
Date Collected: 07/13/23 10:20
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-3
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:11	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-4-S-2'-20230713
Date Collected: 07/13/23 10:30
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-4-S-2'-20230713
Date Collected: 07/13/23 10:30
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-4
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:16	SMC	EET MID

Client Sample ID: SW-5-S-2'-20230713
Date Collected: 07/13/23 10:40
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-5-S-2'-20230713
Date Collected: 07/13/23 10:40
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-5
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:21	SMC	EET MID

Client Sample ID: SW-6-S-2'-20230713
Date Collected: 07/13/23 10:50
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-6-S-2'-20230713
Date Collected: 07/13/23 10:50
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-6
Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:36	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Client Sample ID: SW-7-S-2'-20230713
Date Collected: 07/13/23 11:00
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-7-S-2'-20230713
Date Collected: 07/13/23 11:00
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-7
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:42	SMC	EET MID

Client Sample ID: SW-8-S-2'-20230713
Date Collected: 07/13/23 11:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57715	07/14/23 15:13	KS	EET MID

Client Sample ID: SW-8-S-2'-20230713
Date Collected: 07/13/23 11:10
Date Received: 07/14/23 11:07

Lab Sample ID: 880-30743-8
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58089	07/20/23 14:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57698	07/14/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			57824	07/17/23 11:47	SMC	EET MID

Laboratory References:

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

Preliminary Data

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D2216		Solid	Percent Solids

Preliminary Data

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Preliminary Data

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30743-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30743-1	SW-1-S-2'-20230713	Solid	07/13/23 10:00	07/14/23 11:07
880-30743-2	SW-2-S-2'-20230713	Solid	07/13/23 10:10	07/14/23 11:07
880-30743-3	SW-3-S-2'-20230713	Solid	07/13/23 10:20	07/14/23 11:07
880-30743-4	SW-4-S-2'-20230713	Solid	07/13/23 10:30	07/14/23 11:07
880-30743-5	SW-5-S-2'-20230713	Solid	07/13/23 10:40	07/14/23 11:07
880-30743-6	SW-6-S-2'-20230713	Solid	07/13/23 10:50	07/14/23 11:07
880-30743-7	SW-7-S-2'-20230713	Solid	07/13/23 11:00	07/14/23 11:07
880-30743-8	SW-8-S-2'-20230713	Solid	07/13/23 11:10	07/14/23 11:07

Preliminary Data

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

Chain of Custody Record

eurofins | Environment Testing

30743

Client Information	Sampler: Heath.Boyd@arcadis	Lab PM: Bules John	Carrier Tracking No(s):	COC No: 880-5081-624 4
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John Bules@et eurofinsus com	State of Origin: NM	Page: Page 4 of 32
Company: ARCADIS U S Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24hr CI', 3-Day All Else			
State Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H - Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note:
			Preservation Code.				N		
SW-1-S-2'-20230713	7/13/23	1000	C	Solid			X		
SW-2-S-2'-20230713		1010		Solid			X		
SW-3-S-2'-20230713		1020		Solid			X		
SW-4-S-2'-20230713		1030		Solid			X		
SW-5-S-2'-20230713		1040		Solid			X		
SW-6-S-2'-20230713		1050		Solid			X		
SW-7-S-2'-20230713		1100		Solid			X		
SW-8-S-2'-20230713	X	1110	X	Solid			X		
				Solid					
				Solid					
				Solid					

880-30743 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/13/23 3:50	Arcadis		7/13/23 3:50	
2		7/13/23 3:50			7/14/23	
3					1105	

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0 2.7

Ver: 01/16/2019

Received by OCD: 5/15/2024 3:02:47 PM
Released to Imaging: 6/3/2024 2:55:09 PM
7/21/2023
Page 22 of 23

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30743-1
SDG Number: Eddy County, NM

Login Number: 30743
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Pre Liminary Data

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/31/2023 3:13:48 PM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30781-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

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
7/31/2023 3:13:48 PM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30781-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 880-30781-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: Eddy County, NM

Qualifiers

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, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30781-1

Receipt
The samples were received on 7/17/2023 10:26 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 2.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-2'-20230714 (880-30781-1), B-2-S-2'-20230714 (880-30781-2), B-3-S-2'-20230714 (880-30781-3), B-4-S-2'-20230714 (880-30781-4), B-5-S-2'-20230714 (880-30781-5), B-6-S-2'-20230714 (880-30781-6), B-7-S-2'-20230714 (880-30781-7), B-8-S-2'-20230714 (880-30781-8), B-9-S-2'-20230714 (880-30781-9), B-10-S-2'-20230714 (880-30781-10), B-11-S-2'-20230714 (880-30781-11), B-12-S-2'-20230714 (880-30781-12), B-13-S-2'-20230714 (880-30781-13), B-14-S-2'-20230714 (880-30781-14), B-15-S-2'-20230714 (880-30781-15), B-16-S-2'-20230714 (880-30781-16), B-17-S-2'-20230714 (880-30781-17), B-18-S-2'-20230714 (880-30781-18), B-19-S-2'-20230714 (880-30781-19), B-20-S-2'-20230714 (880-30781-20), B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-27-S-2'-20230714 (880-30781-27), B-28-S-2'-20230714 (880-30781-28) and B-29-S-2'-20230714 (880-30781-29).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-58463/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-25-S-2'-20230714 (880-30781-25) and B-29-S-2'-20230714 (880-30781-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58417 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58417/20).

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58651 and analytical batch 880-58600 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 CCV was biased low for both diesel and gasoline hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-58684/31)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58652 and analytical batch 880-58684 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-21-S-2'-20230714 (880-30781-21), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-28-S-2'-20230714 (880-30781-28), B-29-S-2'-20230714 (880-30781-29), (MB 880-58652/1-A), (880-30781-A-22-F MS) and (880-30781-A-22-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57837

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1 (Continued)

Laboratory: Eurofins Midland (Continued)

and 880-57837 and analytical batch 880-58060 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.

General Chemistry

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: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714

Lab Sample ID: 880-30781-1
Date Collected: 07/14/23 09:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1
o-Xylene	**0.000369**	**J**	0.00205	0.000352	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/24/23 16:31*	*07/25/23 15:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/24/23 16:31*	*07/25/23 15:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.4**	**J**	51.4	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U F1	51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1
Diesel Range Organics (Over C10-C28)	**19.4**	**J**	51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1
OII Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:17*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**754**	**F1**	5.17	0.409	mg/Kg	☼		07/19/23 23:33	1

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2
Date Collected: 07/14/23 09:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1
Toluene	<0.000475	U	0.00208	0.000475	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1
Ethylbenzene	<0.000589	U	0.00208	0.000589	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1
m-Xylene & p-Xylene	<0.00105	U	0.00417	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1
o-Xylene	<0.000359	U	0.00208	0.000359	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1
Xylenes, Total	<0.00105	U	0.00417	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/24/23 16:31*	*07/25/23 15:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/24/23 16:31*	*07/25/23 15:43*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-2-S-2'-20230714

Lab Sample ID: 880-30781-2
Date Collected: 07/14/23 09:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00417	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**94.9**		51.2	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:51	1
Diesel Range Organics (Over C10-C28)	**65.9**		51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:51	1
Oil Range Organics (Over C28-C36)	**29.0**	**J**	51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:51*	*1*
o-Terphenyl	*77*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**314**		5.14	0.406	mg/Kg	☼		07/19/23 23:48	1

Client Sample ID: B-3-S-2'-20230714

Lab Sample ID: 880-30781-3
Date Collected: 07/14/23 09:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00212	0.000408	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1
Toluene	<0.000484	U	0.00212	0.000484	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1
Ethylbenzene	<0.000599	U	0.00212	0.000599	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1
m-Xylene & p-Xylene	<0.00107	U	0.00424	0.00107	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1
o-Xylene	<0.000365	U	0.00212	0.000365	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1
Xylenes, Total	<0.00107	U	0.00424	0.00107	mg/Kg	☼	07/24/23 16:31	07/25/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00107	U	0.00424	0.00107	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**20.8**	**J**	52.4	15.7	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.7	U	52.4	15.7	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-3-S-2'-20230714

Lab Sample ID: 880-30781-3
Date Collected: 07/14/23 09:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**20.8**	**J**	52.4	15.7	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1
OII Range Organics (Over C28-C36)	<15.7	U	52.4	15.7	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:21*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**696**		5.26	0.416	mg/Kg	☼		07/19/23 23:54	1

Client Sample ID: B-4-S-2'-20230714

Lab Sample ID: 880-30781-4
Date Collected: 07/14/23 09:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Ethylbenzene	<0.000580	U	0.00205	0.000580	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.8**		51.9	15.6	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
Diesel Range Organics (Over C10-C28)	**44.4**	**J**	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
OII Range Organics (Over C28-C36)	**16.4**	**J**	51.9	15.6	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:43*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**713**		5.16	0.408	mg/Kg	☼		07/19/23 23:59	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-5-S-2'-20230714

Lab Sample ID: 880-30781-5
Date Collected: 07/14/23 09:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1
Toluene	**0.000533**	**J**	0.00208	0.000473	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1
Ethylbenzene	**0.000649**	**J**	0.00208	0.000587	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1
o-Xylene	**0.000575**	**J**	0.00208	0.000357	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:44*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/24/23 16:31*	*07/25/23 16:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00176**	**J**	0.00415	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**204**		52.7	15.8	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.8	U	52.7	15.8	mg/Kg	☼	07/27/23 11:51	07/27/23 20:11	1
Diesel Range Organics (Over C10-C28)	**204**		52.7	15.8	mg/Kg	☼	07/27/23 11:51	07/27/23 20:11	1
OII Range Organics (Over C28-C36)	<15.8	U	52.7	15.8	mg/Kg	☼	07/27/23 11:51	07/27/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:11*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**872**		5.18	0.409	mg/Kg	☼		07/20/23 00:04	1

Client Sample ID: B-6-S-2'-20230714

Lab Sample ID: 880-30781-6
Date Collected: 07/14/23 09:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1
Toluene	<0.000471	U	0.00207	0.000471	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1
Ethylbenzene	<0.000584	U	0.00207	0.000584	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1
o-Xylene	<0.000356	U	0.00207	0.000356	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:05*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:05*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-6-S-2'-20230714

Lab Sample ID: 880-30781-6
Date Collected: 07/14/23 09:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**830**		51.0	15.3	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 20:55	1
Diesel Range Organics (Over C10-C28)	**830**		51.0	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 20:55	1
OII Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:55*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**834**		5.18	0.409	mg/Kg	☼		07/20/23 00:19	1

Client Sample ID: B-7-S-2'-20230714

Lab Sample ID: 880-30781-7
Date Collected: 07/14/23 10:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1
Toluene	<0.000474	U	0.00208	0.000474	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1
Ethylbenzene	<0.000587	U	0.00208	0.000587	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	☼	07/24/23 16:31	07/25/23 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:25*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00416	0.00105	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**150**		51.7	15.5	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1
Diesel Range Organics (Over C10-C28)	**106**		51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714

Lab Sample ID: 880-30781-7
Date Collected: 07/14/23 10:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	**43.5**	**J**	51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:29*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		25.9	2.05	mg/Kg	☼		07/20/23 00:24	5

Client Sample ID: B-8-S-2'-20230714

Lab Sample ID: 880-30781-8
Date Collected: 07/14/23 10:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00203	0.000392	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1
Toluene	<0.000464	U	0.00203	0.000464	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1
Ethylbenzene	<0.000575	U	0.00203	0.000575	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1
o-Xylene	**0.000543**	**J**	0.00203	0.000350	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:46*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/24/23 16:31*	*07/25/23 17:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**25.9**	**J**	51.7	15.5	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1
Diesel Range Organics (Over C10-C28)	**25.9**	**J**	51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1
Oll Range Organics (Over C28-C36)	<15.5	U	51.7	15.5	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:05*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**755**		5.12	0.404	mg/Kg	☼		07/20/23 00:29	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-9-S-2'-20230714

Lab Sample ID: 880-30781-9
Date Collected: 07/14/23 10:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/24/23 16:31*	*07/25/23 18:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/24/23 16:31*	*07/25/23 18:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.1**	**J**	51.5	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.5	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1
Diesel Range Organics (Over C10-C28)	**32.1**	**J**	51.5	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1
OII Range Organics (Over C28-C36)	<15.4	U	51.5	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:26*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3260**		25.3	2.00	mg/Kg	☼		07/20/23 00:35	5

Client Sample ID: B-10-S-2'-20230714

Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1
Ethylbenzene	**0.000605**	**J**	0.00204	0.000577	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1
o-Xylene	**0.000444**	**J**	0.00204	0.000351	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/24/23 16:31*	*07/25/23 18:26*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/24/23 16:31*	*07/25/23 18:26*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714

Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00105**	**J**	0.00408	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**155**		50.7	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
Diesel Range Organics (Over C10-C28)	**155**		50.7	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1
OII Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:43*	*1*
o-Terphenyl	*79*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6780**		50.9	4.02	mg/Kg	☼		07/20/23 00:40	10

Client Sample ID: B-11-S-2'-20230714

Lab Sample ID: 880-30781-11
Date Collected: 07/14/23 10:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000397	U	0.00206	0.000397	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1
Toluene	**0.000948**	**J**	0.00206	0.000470	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1
Ethylbenzene	<0.000582	U	0.00206	0.000582	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1
o-Xylene	**0.000414**	**J**	0.00206	0.000354	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00136**	**J**	0.00412	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**133**		51.4	15.4	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1
Diesel Range Organics (Over C10-C28)	**133**		51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-11-S-2'-20230714

Lab Sample ID: 880-30781-11
Date Collected: 07/14/23 10:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☼	07/27/23 11:51	07/28/23 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:29*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/27/23 11:51*	*07/28/23 06:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2090**	**F1**	25.5	2.02	mg/Kg	☼		07/20/23 00:45	5

Client Sample ID: B-12-S-2'-20230714

Lab Sample ID: 880-30781-12
Date Collected: 07/14/23 11:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1
Toluene	**0.000638**	**J**	0.00205	0.000467	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:38*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**82.5**		50.5	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 20:33	1
Diesel Range Organics (Over C10-C28)	**82.5**		50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 20:33	1
OII Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:33*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2910**		25.4	2.00	mg/Kg	☼		07/20/23 01:00	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-13-S-2'-20230714

Lab Sample ID: 880-30781-13
Date Collected: 07/14/23 11:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1
Toluene	**0.000507**	**J**	0.00202	0.000460	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1
Ethylbenzene	**0.000612**	**J**	0.00202	0.000570	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:58*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/24/23 16:31*	*07/25/23 20:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00112**	**J**	0.00404	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**185**		50.4	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1
Diesel Range Organics (Over C10-C28)	**185**		50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:17*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**912**		5.07	0.400	mg/Kg	☼		07/20/23 01:05	1

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14
Date Collected: 07/14/23 11:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1
Toluene	**0.000712**	**J**	0.00200	0.000457	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	☼	07/24/23 16:31	07/25/23 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/24/23 16:31*	*07/25/23 21:19*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/24/23 16:31*	*07/25/23 21:19*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-14-S-2'-20230714

Lab Sample ID: 880-30781-14
Date Collected: 07/14/23 11:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.8

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**169**		50.8	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.8	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 21:38	1
Diesel Range Organics (Over C10-C28)	**169**		50.8	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 21:38	1
OII Range Organics (Over C28-C36)	<15.2	U	50.8	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:38*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/27/23 11:51*	*07/27/23 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1680**		25.4	2.00	mg/Kg	☼		07/20/23 01:21	5

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15
Date Collected: 07/14/23 11:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1
Toluene	**0.000503**	**J**	0.00202	0.000460	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1
o-Xylene	**0.000369**	**J**	0.00202	0.000347	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/24/23 16:31*	*07/25/23 21:39*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/24/23 16:31*	*07/25/23 21:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**243**		51.1	15.3	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 22:00	1
Diesel Range Organics (Over C10-C28)	**243**		51.1	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 22:00	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-15-S-2'-20230714

Lab Sample ID: 880-30781-15
Date Collected: 07/14/23 11:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:51	07/27/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:00*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**		25.5	2.01	mg/Kg	☼		07/20/23 01:26	5

Client Sample ID: B-16-S-2'-20230714

Lab Sample ID: 880-30781-16
Date Collected: 07/14/23 12:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1
Toluene	**0.000598**	**J**	0.00204	0.000465	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1
o-Xylene	**0.000409**	**J**	0.00204	0.000351	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:00*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00408	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**148**		51.2	15.4	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1
Diesel Range Organics (Over C10-C28)	**148**		51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1
OII Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:21*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/27/23 11:51*	*07/27/23 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**767**		5.07	0.401	mg/Kg	☼		07/20/23 01:31	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-17-S-2'-20230714

Lab Sample ID: 880-30781-17
Date Collected: 07/14/23 12:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1
Ethylbenzene	**0.000711**	**J**	0.00205	0.000579	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1
m-Xylene & p-Xylene	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1
o-Xylene	**0.000358**	**J**	0.00205	0.000353	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1
Xylenes, Total	<0.00104	U	0.00410	0.00104	mg/Kg	☼	07/24/23 16:31	07/25/23 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:20*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00107**	**J**	0.00410	0.00104	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**149**		50.5	15.2	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1
Diesel Range Organics (Over C10-C28)	**149**		50.5	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1
OII Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg	☼	07/27/23 11:51	07/27/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:05*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		5.08	0.402	mg/Kg	☼		07/20/23 01:36	1

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18
Date Collected: 07/14/23 12:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1
Toluene	<0.000462	U	0.00203	0.000462	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1
Ethylbenzene	<0.000573	U	0.00203	0.000573	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1
o-Xylene	**0.000350**	**J**	0.00203	0.000349	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/24/23 16:31	07/25/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/24/23 16:31*	*07/25/23 22:41*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-18-S-2'-20230714

Lab Sample ID: 880-30781-18
Date Collected: 07/14/23 12:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**125**		50.4	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1
Diesel Range Organics (Over C10-C28)	**125**		50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:26*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**533**		5.07	0.400	mg/Kg	☼		07/20/23 01:41	1

Client Sample ID: B-19-S-2'-20230714

Lab Sample ID: 880-30781-19
Date Collected: 07/14/23 12:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1
Ethylbenzene	**0.000636**	**J**	0.00203	0.000573	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1
o-Xylene	**0.000387**	**J**	0.00203	0.000349	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/24/23 16:31*	*07/25/23 23:01*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/24/23 16:31*	*07/25/23 23:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**84.6**		50.5	15.1	mg/Kg			07/28/23 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1
Diesel Range Organics (Over C10-C28)	**84.6**		50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714

Lab Sample ID: 880-30781-19
Date Collected: 07/14/23 12:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:47*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.0**		5.09	0.402	mg/Kg	☼		07/20/23 01:46	1

Client Sample ID: B-20-S-2'-20230714

Lab Sample ID: 880-30781-20
Date Collected: 07/14/23 12:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1
Ethylbenzene	**0.000633**	**J**	0.00203	0.000574	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/24/23 16:31	07/25/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/24/23 16:31*	*07/25/23 23:21*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/24/23 16:31*	*07/25/23 23:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/26/23 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**25.6**	**J**	51.3	15.4	mg/Kg			07/28/23 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1
Diesel Range Organics (Over C10-C28)	**25.6**	**J**	51.3	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1
OII Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☼	07/27/23 11:51	07/27/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:47*	*1*
o-Terphenyl	*76*		*70 - 130*	*07/27/23 11:51*	*07/27/23 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.06	0.400	mg/Kg	☼		07/20/23 01:51	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-21-S-2'-20230714

Lab Sample ID: 880-30781-21
Date Collected: 07/14/23 13:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000428**	**J**	0.00200	0.000386	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1
Toluene	**0.00205**		0.00200	0.000457	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1
m-Xylene & p-Xylene	**0.00112**	**J**	0.00401	0.00101	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1
o-Xylene	**0.000458**	**J**	0.00200	0.000345	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1
Xylenes, Total	**0.00158**	**J**	0.00401	0.00101	mg/Kg	☼	07/25/23 10:46	07/25/23 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/25/23 10:46*	*07/25/23 17:39*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 17:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00406**		0.00401	0.00101	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**86.7**		50.6	15.2	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/28/23 22:57	1
Diesel Range Organics (Over C10-C28)	**86.7**		50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/28/23 22:57	1
OII Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/28/23 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 22:57*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/27/23 11:54*	*07/28/23 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		5.06	0.400	mg/Kg	☼		07/19/23 14:00	1

Client Sample ID: B-22-S-2'-20230714

Lab Sample ID: 880-30781-22
Date Collected: 07/14/23 13:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00204	0.000394	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1
Toluene	**0.00294**		0.00204	0.000466	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1
Ethylbenzene	<0.000578	U	0.00204	0.000578	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1
m-Xylene & p-Xylene	**0.00151**	**J**	0.00409	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1
o-Xylene	**0.000443**	**J**	0.00204	0.000352	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1
Xylenes, Total	**0.00195**	**J**	0.00409	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/25/23 10:46*	*07/25/23 18:00*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 18:00*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714

Lab Sample ID: 880-30781-22
Date Collected: 07/14/23 13:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00489**		0.00409	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**28.7**	**J**	50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 20:48	1
Diesel Range Organics (Over C10-C28)	**28.7**	**J F1**	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 20:48	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/27/23 11:54*	*07/28/23 20:48*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/27/23 11:54*	*07/28/23 20:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		5.04	0.398	mg/Kg	☼		07/19/23 14:15	1

Client Sample ID: B-23-S-2'-20230714

Lab Sample ID: 880-30781-23
Date Collected: 07/14/23 13:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1
Toluene	**0.00243**		0.00203	0.000463	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1
m-Xylene & p-Xylene	**0.00128**	**J**	0.00406	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1
o-Xylene	**0.000475**	**J**	0.00203	0.000349	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1
Xylenes, Total	**0.00176**	**J**	0.00406	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/25/23 10:46*	*07/25/23 18:20*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 18:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00419**		0.00406	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**103**		50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 23:40	1
Diesel Range Organics (Over C10-C28)	**103**		50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 23:40	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-23-S-2'-20230714

Lab Sample ID: 880-30781-23
Date Collected: 07/14/23 13:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/28/23 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 23:40*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/27/23 11:54*	*07/28/23 23:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**571**		5.05	0.399	mg/Kg	☼		07/19/23 14:20	1

Client Sample ID: B-24-S-2'-20230714

Lab Sample ID: 880-30781-24
Date Collected: 07/14/23 13:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00204	0.000392	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Toluene	**0.00119**	**J**	0.00204	0.000465	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Ethylbenzene	<0.000576	U	0.00204	0.000576	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
o-Xylene	<0.000350	U	0.00204	0.000350	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/25/23 10:46*	*07/25/23 18:41*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*07/25/23 10:46*	*07/25/23 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00119**	**J**	0.00407	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.5**		50.3	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1
Diesel Range Organics (Over C10-C28)	**64.5**		50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1
OII Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 00:01*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/27/23 11:54*	*07/29/23 00:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		25.5	2.01	mg/Kg	☼		07/19/23 14:35	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714

Lab Sample ID: 880-30781-25
Date Collected: 07/14/23 13:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1
Toluene	**0.00208**		0.00204	0.000465	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1
o-Xylene	**0.000351**	**J**	0.00204	0.000351	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/25/23 10:46*	*07/25/23 19:01*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 19:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00243**	**J**	0.00408	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**209**		51.1	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:14	1
Diesel Range Organics (Over C10-C28)	**209**		51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:14	1
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 22:14*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		25.6	2.02	mg/Kg	☼		07/19/23 14:40	5

Client Sample ID: B-26-S-2'-20230714

Lab Sample ID: 880-30781-26
Date Collected: 07/14/23 13:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1
Toluene	**0.00109**	**J**	0.00203	0.000462	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1
Ethylbenzene	<0.000572	U	0.00203	0.000572	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1
o-Xylene	<0.000348	U	0.00203	0.000348	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/25/23 10:46	07/25/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/25/23 10:46*	*07/25/23 19:22*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*07/25/23 10:46*	*07/25/23 19:22*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-26-S-2'-20230714

Lab Sample ID: 880-30781-26
Date Collected: 07/14/23 13:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00109**	**J**	0.00405	0.00102	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**269**		51.0	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:36	1
Diesel Range Organics (Over C10-C28)	**269**		51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:36	1
OII Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 22:36*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/27/23 11:54*	*07/28/23 22:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**415**		5.06	0.400	mg/Kg	☼		07/19/23 14:45	1

Client Sample ID: B-27-S-2'-20230714

Lab Sample ID: 880-30781-27
Date Collected: 07/14/23 14:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1
Toluene	**0.00180**	**J**	0.00204	0.000466	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1
o-Xylene	**0.000369**	**J**	0.00204	0.000351	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/25/23 10:46*	*07/25/23 19:43*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/25/23 10:46*	*07/25/23 19:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00217**	**J**	0.00408	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**157**		51.2	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/28/23 23:18	1
Diesel Range Organics (Over C10-C28)	**157**		51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/28/23 23:18	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-27-S-2'-20230714

Date Collected: 07/14/23 14:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-27

Matrix: Solid
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/28/23 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/27/23 11:54*	*07/28/23 23:18*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/27/23 11:54*	*07/28/23 23:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3700**		25.8	2.04	mg/Kg	☼		07/19/23 14:50	5

Client Sample ID: B-28-S-2'-20230714

Date Collected: 07/14/23 14:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-28

Matrix: Solid
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000441**	**J**	0.00208	0.000401	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1
Toluene	**0.00376**		0.00208	0.000475	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1
Ethylbenzene	**0.000763**	**J**	0.00208	0.000588	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1
m-Xylene & p-Xylene	**0.00216**	**J**	0.00416	0.00105	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1
o-Xylene	**0.000763**	**J**	0.00208	0.000358	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1
Xylenes, Total	**0.00292**	**J**	0.00416	0.00105	mg/Kg	☼	07/25/23 10:46	07/25/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/25/23 10:46*	*07/25/23 20:03*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/25/23 10:46*	*07/25/23 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00789**		0.00416	0.00105	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**37.3**	**J**	51.3	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 00:22	1
Diesel Range Organics (Over C10-C28)	**37.3**	**J**	51.3	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 00:22	1
OII Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 00:22*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/27/23 11:54*	*07/29/23 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2710**		25.6	2.02	mg/Kg	☼		07/19/23 14:55	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-29-S-2'-20230714

Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29

Matrix: Solid
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U	0.00205	0.000394	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Toluene	**0.00314**		0.00205	0.000467	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Ethylbenzene	<0.000579	U	0.00205	0.000579	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
m-Xylene & p-Xylene	**0.00125**	**J**	0.00410	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
o-Xylene	**0.000481**	**J**	0.00205	0.000352	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1
Xylenes, Total	**0.00173**	**J**	0.00410	0.00103	mg/Kg	☼	07/25/23 10:46	07/25/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/25/23 10:46*	*07/25/23 20:24*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 20:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00487**		0.00410	0.00103	mg/Kg			07/26/23 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**364**		50.9	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1
Diesel Range Organics (Over C10-C28)	**364**		50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1
OII Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/28/23 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 21:53*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/27/23 11:54*	*07/28/23 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3690**		25.5	2.01	mg/Kg	☼		07/19/23 15:00	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30781-1	B-1-S-2'-20230714	86	97
880-30781-1 MS	B-1-S-2'-20230714	101	103
880-30781-1 MSD	B-1-S-2'-20230714	89	98
880-30781-2	B-2-S-2'-20230714	92	99
880-30781-3	B-3-S-2'-20230714	99	94
880-30781-4	B-4-S-2'-20230714	89	96
880-30781-5	B-5-S-2'-20230714	95	93
880-30781-6	B-6-S-2'-20230714	87	100
880-30781-7	B-7-S-2'-20230714	89	98
880-30781-8	B-8-S-2'-20230714	93	98
880-30781-9	B-9-S-2'-20230714	91	100
880-30781-10	B-10-S-2'-20230714	102	96
880-30781-11	B-11-S-2'-20230714	83	94
880-30781-12	B-12-S-2'-20230714	87	101
880-30781-13	B-13-S-2'-20230714	86	96
880-30781-14	B-14-S-2'-20230714	102	100
880-30781-15	B-15-S-2'-20230714	91	96
880-30781-16	B-16-S-2'-20230714	92	103
880-30781-17	B-17-S-2'-20230714	103	100
880-30781-18	B-18-S-2'-20230714	98	100
880-30781-19	B-19-S-2'-20230714	103	103
880-30781-20	B-20-S-2'-20230714	93	103
880-30781-21	B-21-S-2'-20230714	89	64 S1-
880-30781-22	B-22-S-2'-20230714	90	64 S1-
880-30781-23	B-23-S-2'-20230714	94	61 S1-
880-30781-24	B-24-S-2'-20230714	88	76
880-30781-25	B-25-S-2'-20230714	93	62 S1-
880-30781-26	B-26-S-2'-20230714	89	71
880-30781-27	B-27-S-2'-20230714	90	80
880-30781-28	B-28-S-2'-20230714	91	80
880-30781-29	B-29-S-2'-20230714	84	61 S1-
LCS 880-58396/1-A	Lab Control Sample	104	99
LCS 880-58463/1-A	Lab Control Sample	106	103
LCSD 880-58396/2-A	Lab Control Sample Dup	97	92
LCSD 880-58463/2-A	Lab Control Sample Dup	109	107
MB 880-58396/5-A	Method Blank	99	110
MB 880-58463/5-A	Method Blank	67 S1-	96

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30781-1	B-1-S-2'-20230714	88	85
880-30781-1 MS	B-1-S-2'-20230714	79	68 S1-

Surrogate Summary

Client: ARCADIS US Inc Job ID: 880-30781-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: Eddy County, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-30781-1 MSD	B-1-S-2'-20230714	84	74								
880-30781-2	B-2-S-2'-20230714	78	77								
880-30781-3	B-3-S-2'-20230714	84	83								
880-30781-4	B-4-S-2'-20230714	81	78								
880-30781-5	B-5-S-2'-20230714	90	98								
880-30781-6	B-6-S-2'-20230714	100	104								
880-30781-7	B-7-S-2'-20230714	88	86								
880-30781-8	B-8-S-2'-20230714	86	84								
880-30781-9	B-9-S-2'-20230714	87	84								
880-30781-10	B-10-S-2'-20230714	76	79								
880-30781-11	B-11-S-2'-20230714	84	94								
880-30781-12	B-12-S-2'-20230714	78	84								
880-30781-13	B-13-S-2'-20230714	94	98								
880-30781-14	B-14-S-2'-20230714	77	81								
880-30781-15	B-15-S-2'-20230714	85	87								
880-30781-16	B-16-S-2'-20230714	86	89								
880-30781-17	B-17-S-2'-20230714	96	99								
880-30781-18	B-18-S-2'-20230714	78	83								
880-30781-19	B-19-S-2'-20230714	88	93								
880-30781-20	B-20-S-2'-20230714	78	76								
880-30781-21	B-21-S-2'-20230714	131 S1+	115								
880-30781-22	B-22-S-2'-20230714	128	116								
880-30781-22 MS	B-22-S-2'-20230714	182 S1+	154 S1+								
880-30781-22 MSD	B-22-S-2'-20230714	168 S1+	146 S1+								
880-30781-23	B-23-S-2'-20230714	134 S1+	116								
880-30781-24	B-24-S-2'-20230714	138 S1+	123								
880-30781-25	B-25-S-2'-20230714	147 S1+	132 S1+								
880-30781-26	B-26-S-2'-20230714	134 S1+	118								
880-30781-27	B-27-S-2'-20230714	130	117								
880-30781-28	B-28-S-2'-20230714	138 S1+	122								
880-30781-29	B-29-S-2'-20230714	133 S1+	117								
LCS 880-58651/2-A	Lab Control Sample	95	92								
LCS 880-58652/2-A	Lab Control Sample	105	105								
LCSD 880-58651/3-A	Lab Control Sample Dup	93	92								
LCSD 880-58652/3-A	Lab Control Sample Dup	111	102								
MB 880-58651/1-A	Method Blank	101	102								
MB 880-58652/1-A	Method Blank	166 S1+	158 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58396/5-A
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/24/23 16:31	07/25/23 14:53	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/24/23 16:31	07/25/23 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/24/23 16:31*	*07/25/23 14:53*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/24/23 16:31*	*07/25/23 14:53*	*1*

Lab Sample ID: LCS 880-58396/1-A
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1207		mg/Kg		121	70 - 130
Toluene	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1203		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2340		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-58396/2-A
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	13	35
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-30781-1 MS
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000394	U	0.103	0.1280		mg/Kg	☼	125	70 - 130
Toluene	<0.000467	U	0.103	0.1095		mg/Kg	☼	107	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30781-1 MS
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000579	U	0.103	0.1142		mg/Kg	☼	111	70 - 130
m-Xylene & p-Xylene	<0.00103	U	0.205	0.2308		mg/Kg	☼	112	70 - 130
o-Xylene	0.000369	J	0.103	0.1055		mg/Kg	☼	102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-30781-1 MSD
Matrix: Solid
Analysis Batch: 58418

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000394	U	0.103	0.1120		mg/Kg	☼	109	70 - 130	13	35
Toluene	<0.000467	U	0.103	0.1002		mg/Kg	☼	97	70 - 130	9	35
Ethylbenzene	<0.000579	U	0.103	0.09596		mg/Kg	☼	93	70 - 130	17	35
m-Xylene & p-Xylene	<0.00103	U	0.206	0.1824		mg/Kg	☼	89	70 - 130	23	35
o-Xylene	0.000369	J	0.103	0.08274		mg/Kg	☼	80	70 - 130	24	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-58463/5-A
Matrix: Solid
Analysis Batch: 58417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/25/23 10:46	07/25/23 12:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/25/23 10:46	07/25/23 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*07/25/23 10:46*	*07/25/23 12:49*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/25/23 10:46*	*07/25/23 12:49*	*1*

Lab Sample ID: LCS 880-58463/1-A
Matrix: Solid
Analysis Batch: 58417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1170		mg/Kg		117	70 - 130
Toluene	0.100	0.09993		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58463/1-A
Matrix: Solid
Analysis Batch: 58417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58463

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1116		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-58463/2-A
Matrix: Solid
Analysis Batch: 58417

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58463

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1189		mg/Kg		119	70 - 130	2	35
Toluene			0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.1117		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2315		mg/Kg		116	70 - 130	2	35
o-Xylene			0.100	0.1139		mg/Kg		114	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-58651/1-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:51	07/27/23 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:11*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/27/23 11:51*	*07/27/23 20:11*	*1*

Lab Sample ID: LCS 880-58651/2-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58651

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	888.0		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	849.8		mg/Kg		85	70 - 130		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58651/2-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58651

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-58651/3-A
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58651

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	863.1		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	857.9		mg/Kg		86	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-30781-1 MS
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.4	U F1	1040	719.9	F1	mg/Kg	☼	69	70 - 130
Diesel Range Organics (Over C10-C28)	19.4	J	1040	762.7		mg/Kg	☼	72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-30781-1 MSD
Matrix: Solid
Analysis Batch: 58600

Client Sample ID: B-1-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.4	U F1	1040	762.4		mg/Kg	☼	73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	19.4	J	1040	833.6		mg/Kg	☼	78	70 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58652/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58684 — **Prep Batch: 58652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 19:43*	*1*
o-Terphenyl	*158*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/28/23 19:43*	*1*

Lab Sample ID: LCS 880-58652/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58684 — **Prep Batch: 58652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	868.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	920.7		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-58652/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58684 — **Prep Batch: 58652**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.0		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	999.8		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 880-30781-22 MS — **Client Sample ID: B-22-S-2'-20230714**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58684 — **Prep Batch: 58652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	1020	1094		mg/Kg	☼	107	70 - 130
Diesel Range Organics (Over C10-C28)	28.7	J F1	1020	1590	F1	mg/Kg	☼	153	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30781-22 MS
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: B-22-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58652

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	182	S1+	70 - 130
o-Terphenyl	154	S1+	70 - 130

Lab Sample ID: 880-30781-22 MSD
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: B-22-S-2'-20230714
Prep Type: Total/NA
Prep Batch: 58652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	1020	1013		mg/Kg	☼	99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	28.7	J F1	1020	1485	F1	mg/Kg	☼	142	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	146	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57838/1-A
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 12:36	1

Lab Sample ID: LCS 880-57838/2-A
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57838/3-A
Matrix: Solid
Analysis Batch: 58048

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30781-21 MS
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	465		253	716.4		mg/Kg	☼	99	90 - 110

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30781-21 MSD — **Client Sample ID: B-21-S-2'-20230714**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	465		253	715.4		mg/Kg	☼	99	90 - 110	0	20

Lab Sample ID: MB 880-57837/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 23:18	1

Lab Sample ID: LCS 880-57837/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57837/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	7	20

Lab Sample ID: 880-30781-1 MS — **Client Sample ID: B-1-S-2'-20230714**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	754	F1	259	978.1	F1	mg/Kg	☼	87	90 - 110

Lab Sample ID: 880-30781-1 MSD — **Client Sample ID: B-1-S-2'-20230714**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	754	F1	259	1014		mg/Kg	☼	100	90 - 110	4	20

Lab Sample ID: 880-30781-11 MS — **Client Sample ID: B-11-S-2'-20230714**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2090	F1	1280	3213	F1	mg/Kg	☼	88	90 - 110

Lab Sample ID: 880-30781-11 MSD — **Client Sample ID: B-11-S-2'-20230714**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090	F1	1280	3310		mg/Kg	☼	95	90 - 110	3	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 58396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	5030B	
MB 880-58396/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58396/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58396/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	5030B	

Analysis Batch: 58417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8021B	58463
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8021B	58463
MB 880-58463/5-A	Method Blank	Total/NA	Solid	8021B	58463
LCS 880-58463/1-A	Lab Control Sample	Total/NA	Solid	8021B	58463
LCSD 880-58463/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58463

Analysis Batch: 58418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8021B	58396

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8021B	58396
MB 880-58396/5-A	Method Blank	Total/NA	Solid	8021B	58396
LCS 880-58396/1-A	Lab Control Sample	Total/NA	Solid	8021B	58396
LCSD 880-58396/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58396
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8021B	58396

Prep Batch: 58463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	5030B	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	5030B	
MB 880-58463/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58463/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58463/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	Total BTEX	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 58600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015B NM	58651
MB 880-58651/1-A	Method Blank	Total/NA	Solid	8015B NM	58651
LCS 880-58651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58651
LCSD 880-58651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58651
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8015B NM	58651

Analysis Batch: 58601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015B NM	58651
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015B NM	58651

Prep Batch: 58651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 58651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015NM Prep	
MB 880-58651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30781-1 MS	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-1 MSD	B-1-S-2'-20230714	Total/NA	Solid	8015NM Prep	

Prep Batch: 58652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015NM Prep	
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30781-22 MS	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	
880-30781-22 MSD	B-22-S-2'-20230714	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015B NM	58652

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015B NM	58652
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015B NM	58652
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58652
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58652
880-30781-22 MS	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652
880-30781-22 MSD	B-22-S-2'-20230714	Total/NA	Solid	8015B NM	58652

Analysis Batch: 58713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	8015 NM	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 57837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	DI Leach	

Leach Batch: 57838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57838/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	DI Leach	

Analysis Batch: 58048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	300.0	57838
MB 880-57838/1-A	Method Blank	Soluble	Solid	300.0	57838
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	300.0	57838
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57838

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	300.0	57838

Analysis Batch: 58060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	300.0	57837
MB 880-57837/1-A	Method Blank	Soluble	Solid	300.0	57837
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	300.0	57837
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57837
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	300.0	57837

General Chemistry

Analysis Batch: 57965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	D2216	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 57965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57965/1	Method Blank	Total/NA	Solid	D2216	
880-30781-1 DU	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11 DU	B-11-S-2'-20230714	Total/NA	Solid	D2216	

Analysis Batch: 57966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57966/1	Method Blank	Total/NA	Solid	D2216	
880-30781-21 DU	B-21-S-2'-20230714	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714
Date Collected: 07/14/23 09:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-1-S-2'-20230714
Date Collected: 07/14/23 09:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-1
Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 21:17	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:33	CH	EET MID

Client Sample ID: B-2-S-2'-20230714
Date Collected: 07/14/23 09:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-2-S-2'-20230714
Date Collected: 07/14/23 09:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-2
Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/28/23 06:51	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:48	CH	EET MID

Client Sample ID: B-3-S-2'-20230714
Date Collected: 07/14/23 09:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-3-S-2'-20230714
Date Collected: 07/14/23 09:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-3
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 22:21	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:54	CH	EET MID

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 22:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:59	CH	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 16:44	SM	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:11	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:04	CH	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:55	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:19	CH	EET MID

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/28/23 06:29	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:24	CH	EET MID

Client Sample ID: B-8-S-2'-20230714
Date Collected: 07/14/23 10:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-8-S-2'-20230714
Date Collected: 07/14/23 10:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-8
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:29	CH	EET MID

Client Sample ID: B-9-S-2'-20230714
Date Collected: 07/14/23 10:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-9-S-2'-20230714
Date Collected: 07/14/23 10:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-9
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:35	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 880-30781-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714
Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-10-S-2'-20230714
Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		10			58060	07/20/23 00:40	CH	EET MID

Client Sample ID: B-11-S-2'-20230714
Lab Sample ID: 880-30781-11
Date Collected: 07/14/23 10:40
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-11-S-2'-20230714
Lab Sample ID: 880-30781-11
Date Collected: 07/14/23 10:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/28/23 06:29	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:45	CH	EET MID

Client Sample ID: B-12-S-2'-20230714
Lab Sample ID: 880-30781-12
Date Collected: 07/14/23 11:20
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-12-S-2'-20230714
Date Collected: 07/14/23 11:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-12
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 20:33	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:00	CH	EET MID

Client Sample ID: B-13-S-2'-20230714
Date Collected: 07/14/23 11:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-13-S-2'-20230714
Date Collected: 07/14/23 11:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-13
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 21:17	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:05	CH	EET MID

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 21:19	SM	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-14-S-2'-20230714
Date Collected: 07/14/23 11:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-14
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 21:38	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:21	CH	EET MID

Client Sample ID: B-15-S-2'-20230714
Date Collected: 07/14/23 11:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-15-S-2'-20230714
Date Collected: 07/14/23 11:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-15
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:00	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:26	CH	EET MID

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 22:21	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:31	CH	EET MID

Client Sample ID: B-17-S-2'-20230714
Date Collected: 07/14/23 12:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-17-S-2'-20230714
Date Collected: 07/14/23 12:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-17
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:05	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:36	CH	EET MID

Client Sample ID: B-18-S-2'-20230714
Date Collected: 07/14/23 12:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-18-S-2'-20230714
Date Collected: 07/14/23 12:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-18
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:41	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:12	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 23:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58601	07/27/23 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:46	CH	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/28/23 11:15	AJ	EET MID
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58396	07/24/23 16:31	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58418	07/25/23 23:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58651	07/27/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58600	07/27/23 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:51	CH	EET MID

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 17:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:57	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:00	CH	EET MID

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 20:48	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:15	CH	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:20	SM	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 23:40	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:20	CH	EET MID

Client Sample ID: B-24-S-2'-20230714
Date Collected: 07/14/23 13:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-24-S-2'-20230714
Date Collected: 07/14/23 13:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-24
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:01	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:35	CH	EET MID

Client Sample ID: B-25-S-2'-20230714
Date Collected: 07/14/23 13:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-25-S-2'-20230714
Date Collected: 07/14/23 13:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-25
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:14	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714
Date Collected: 07/14/23 13:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-25
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:40	CH	EET MID

Client Sample ID: B-26-S-2'-20230714
Date Collected: 07/14/23 13:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-26-S-2'-20230714
Date Collected: 07/14/23 13:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-26
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 22:36	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:45	CH	EET MID

Client Sample ID: B-27-S-2'-20230714
Date Collected: 07/14/23 14:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-27-S-2'-20230714
Date Collected: 07/14/23 14:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-27
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 19:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 23:18	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:50	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 880-30781-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

Client Sample ID: B-28-S-2'-20230714
Lab Sample ID: 880-30781-28
Date Collected: 07/14/23 14:10
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-28-S-2'-20230714
Lab Sample ID: 880-30781-28
Date Collected: 07/14/23 14:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 20:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:22	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:55	CH	EET MID

Client Sample ID: B-29-S-2'-20230714
Lab Sample ID: 880-30781-29
Date Collected: 07/14/23 14:20
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58533	07/26/23 09:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			58713	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-29-S-2'-20230714
Lab Sample ID: 880-30781-29
Date Collected: 07/14/23 14:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	58463	07/25/23 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58417	07/25/23 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/28/23 21:53	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 15:00	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy 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
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30781-1	B-1-S-2'-20230714	Solid	07/14/23 09:00	07/17/23 10:26
880-30781-2	B-2-S-2'-20230714	Solid	07/14/23 09:10	07/17/23 10:26
880-30781-3	B-3-S-2'-20230714	Solid	07/14/23 09:20	07/17/23 10:26
880-30781-4	B-4-S-2'-20230714	Solid	07/14/23 09:30	07/17/23 10:26
880-30781-5	B-5-S-2'-20230714	Solid	07/14/23 09:40	07/17/23 10:26
880-30781-6	B-6-S-2'-20230714	Solid	07/14/23 09:50	07/17/23 10:26
880-30781-7	B-7-S-2'-20230714	Solid	07/14/23 10:00	07/17/23 10:26
880-30781-8	B-8-S-2'-20230714	Solid	07/14/23 10:10	07/17/23 10:26
880-30781-9	B-9-S-2'-20230714	Solid	07/14/23 10:20	07/17/23 10:26
880-30781-10	B-10-S-2'-20230714	Solid	07/14/23 10:30	07/17/23 10:26
880-30781-11	B-11-S-2'-20230714	Solid	07/14/23 10:40	07/17/23 10:26
880-30781-12	B-12-S-2'-20230714	Solid	07/14/23 11:20	07/17/23 10:26
880-30781-13	B-13-S-2'-20230714	Solid	07/14/23 11:30	07/17/23 10:26
880-30781-14	B-14-S-2'-20230714	Solid	07/14/23 11:40	07/17/23 10:26
880-30781-15	B-15-S-2'-20230714	Solid	07/14/23 11:50	07/17/23 10:26
880-30781-16	B-16-S-2'-20230714	Solid	07/14/23 12:00	07/17/23 10:26
880-30781-17	B-17-S-2'-20230714	Solid	07/14/23 12:10	07/17/23 10:26
880-30781-18	B-18-S-2'-20230714	Solid	07/14/23 12:20	07/17/23 10:26
880-30781-19	B-19-S-2'-20230714	Solid	07/14/23 12:30	07/17/23 10:26
880-30781-20	B-20-S-2'-20230714	Solid	07/14/23 12:40	07/17/23 10:26
880-30781-21	B-21-S-2'-20230714	Solid	07/14/23 13:00	07/17/23 10:26
880-30781-22	B-22-S-2'-20230714	Solid	07/14/23 13:10	07/17/23 10:26
880-30781-23	B-23-S-2'-20230714	Solid	07/14/23 13:20	07/17/23 10:26
880-30781-24	B-24-S-2'-20230714	Solid	07/14/23 13:30	07/17/23 10:26
880-30781-25	B-25-S-2'-20230714	Solid	07/14/23 13:40	07/17/23 10:26
880-30781-26	B-26-S-2'-20230714	Solid	07/14/23 13:50	07/17/23 10:26
880-30781-27	B-27-S-2'-20230714	Solid	07/14/23 14:00	07/17/23 10:26
880-30781-28	B-28-S-2'-20230714	Solid	07/14/23 14:10	07/17/23 10:26
880-30781-29	B-29-S-2'-20230714	Solid	07/14/23 14:20	07/17/23 10:26

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

Chain of Custody Record

eurofins | Environment Testing

30781

Client Information	Sampler: Heath Boyd	Lab PM: Bulles John	Carrier Tracking No(s):	COC No: 880-5081-624 5
Client Contact: Justin Nixon	Phone: 575-942 0292	E-Mail: John Bulles@et eurofinsus com	State of Origin: NM	Page: Page ~~1 of 2~~ 1 of 3
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-1-S-2'-20230714	7/14/23	900	C	Solid			X		
B-2-S-2'-20230714		910		Solid			X		
B-3-S-2'-20230714		920		Solid			X		
B-4-S-2'-20230714		930		Solid			X		
B-5-S-2'-20230714		940		Solid			X		
B-6-S-2'-20230714		950		Solid			X		
B-7-S-2'-20230714		1000		Solid			X		
B-8-S-2'-20230714		1010		Solid			X		
B-9-S-2'-20230714		1020		Solid			X		
B-10-S-2'-20230714		1030		Solid			X		
B-11-S-2'-20230714		1040	X	Solid			X		

880-30781 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/23 1506	Arcadis		7/14/23 307	
2		7/14/23 310			7/17/23 1026	
3						

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0127

Ver: 01/16/2019

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7/31/2023

Received by OCD: 5/15/2024 3:02:47 PM

Released to Imaging: 6/3/2024 2:55:09 PM

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

Chain of Custody Record

eurofins | Environment Testing

30181

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 6
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~Page 2~~ 2 of 3
Company: ARCADIS U S Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-12-S-2'-20230714	7/14/23	1120	C	Solid			X		
B-13-S-2'-20230714		1130		Solid			X		
B-14-S-2'-20230714		1140		Solid			X		
B-15-S-2'-20230714		1150		Solid			X		
B-16-S-2'-20230714		1200		Solid			X		
B-17-S-2'-20230714		1210		Solid			X		
B-18-S-2'-20230714		1220		Solid			X		
B-19-S-2'-20230714		1230		Solid			X		
B-20-S-2'-20230714		1240		Solid			X		
B-21-S-2'-20230714		1300		Solid			X		
B-22-S-2'-20230714		1310		Solid			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/23 1507	Arcadis		7/14/23 307	
2		7/14/23 310			7/17/23 1026	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

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7/31/2023

Received by OCD: 5/15/2024 3:02:47 PM

Released to Imaging: 6/3/2024 2:55:09 PM

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

Chain of Custody Record

30781

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Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 8
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~8 of 32~~ 3 of 3
Company: ARCADIS U S Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify); Other:
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-23-S-2'-20230714	7/14/23	1320	C	Solid			X		
B-24-S-2'-20230714		1330		Solid			X		
B-25-S-2'-20230714		1340		Solid			X		
B-26-S-2'-20230714		1350		Solid			X		
B-27-S-2'-20230714		1400		Solid			X		
B-28-S-2'-20230714		1410		Solid			X		Loc: 880 30781
B-29-S-2'-20230714	X	1420	X	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/23 1507	Arcadis		7-14-23 307	
2		7/14/23 310			7/17/23	
3		Date/Time	Company	Received by	Date/Time 1026	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

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Received by OCD: 5/15/2024 3:02:47 PM
7/31/2023
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Released to Imaging: 6/3/2024 2:55:09 PM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30781-1
SDG Number: Eddy County, NM

Login Number: 30781
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Preliminary Data

PREPARED FOR

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

Generated 7/21/2023 10:15:44 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30781-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Preliminary Data

Generated
7/21/2023 10:15:44 AM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30781-1
SDG: Eddy County, NM

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Preliminary Data

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Qualifiers

HPLC/IC

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

Glossary

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

Preliminary Data

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Job ID: 880-30781-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30781-1

Receipt
The samples were received on 7/17/2023 10:26 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 2.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-2'-20230714 (880-30781-1), B-2-S-2'-20230714 (880-30781-2), B-3-S-2'-20230714 (880-30781-3), B-4-S-2'-20230714 (880-30781-4), B-5-S-2'-20230714 (880-30781-5), B-6-S-2'-20230714 (880-30781-6), B-7-S-2'-20230714 (880-30781-7), B-8-S-2'-20230714 (880-30781-8), B-9-S-2'-20230714 (880-30781-9), B-10-S-2'-20230714 (880-30781-10), B-11-S-2'-20230714 (880-30781-11), B-12-S-2'-20230714 (880-30781-12), B-13-S-2'-20230714 (880-30781-13), B-14-S-2'-20230714 (880-30781-14), B-15-S-2'-20230714 (880-30781-15), B-16-S-2'-20230714 (880-30781-16), B-17-S-2'-20230714 (880-30781-17), B-18-S-2'-20230714 (880-30781-18), B-19-S-2'-20230714 (880-30781-19), B-20-S-2'-20230714 (880-30781-20), B-21-S-2'-20230714 (880-30781-21), B-22-S-2'-20230714 (880-30781-22), B-23-S-2'-20230714 (880-30781-23), B-24-S-2'-20230714 (880-30781-24), B-25-S-2'-20230714 (880-30781-25), B-26-S-2'-20230714 (880-30781-26), B-27-S-2'-20230714 (880-30781-27), B-28-S-2'-20230714 (880-30781-28) and B-29-S-2'-20230714 (880-30781-29).

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57837 and 880-57837 and analytical batch 880-58060 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.

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

Pre Liminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714
Lab Sample ID: 880-30781-1
Date Collected: 07/14/23 09:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754	F1	5.17	0.409	mg/Kg	☼		07/19/23 23:33	1

Client Sample ID: B-2-S-2'-20230714
Lab Sample ID: 880-30781-2
Date Collected: 07/14/23 09:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.14	0.406	mg/Kg	☼		07/19/23 23:48	1

Client Sample ID: B-3-S-2'-20230714
Lab Sample ID: 880-30781-3
Date Collected: 07/14/23 09:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 94.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.26	0.416	mg/Kg	☼		07/19/23 23:54	1

Client Sample ID: B-4-S-2'-20230714
Lab Sample ID: 880-30781-4
Date Collected: 07/14/23 09:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.16	0.408	mg/Kg	☼		07/19/23 23:59	1

Client Sample ID: B-5-S-2'-20230714
Lab Sample ID: 880-30781-5
Date Collected: 07/14/23 09:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 95.6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	872		5.18	0.409	mg/Kg	☼		07/20/23 00:04	1

Client Sample ID: B-6-S-2'-20230714
Lab Sample ID: 880-30781-6
Date Collected: 07/14/23 09:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	834		5.18	0.409	mg/Kg	☼		07/20/23 00:19	1

Client Sample ID: B-7-S-2'-20230714
Lab Sample ID: 880-30781-7
Date Collected: 07/14/23 10:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.9	2.05	mg/Kg	☼		07/20/23 00:24	5

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-8-S-2'-20230714
Lab Sample ID: 880-30781-8
Date Collected: 07/14/23 10:10 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 97.3**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	755		5.12	0.404	mg/Kg	☼		07/20/23 00:29	1

Client Sample ID: B-9-S-2'-20230714
Lab Sample ID: 880-30781-9
Date Collected: 07/14/23 10:20 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 97.9**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		25.3	2.00	mg/Kg	☼		07/20/23 00:35	5

Client Sample ID: B-10-S-2'-20230714
Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.7**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6780		50.9	4.02	mg/Kg	☼		07/20/23 00:40	10

Client Sample ID: B-11-S-2'-20230714
Lab Sample ID: 880-30781-11
Date Collected: 07/14/23 10:40 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 97.3**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	F1	25.5	2.02	mg/Kg	☼		07/20/23 00:45	5

Client Sample ID: B-12-S-2'-20230714
Lab Sample ID: 880-30781-12
Date Collected: 07/14/23 11:20 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.6**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		25.4	2.00	mg/Kg	☼		07/20/23 01:00	5

Client Sample ID: B-13-S-2'-20230714
Lab Sample ID: 880-30781-13
Date Collected: 07/14/23 11:30 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.4**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	912		5.07	0.400	mg/Kg	☼		07/20/23 01:05	1

Client Sample ID: B-14-S-2'-20230714
Lab Sample ID: 880-30781-14
Date Collected: 07/14/23 11:40 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.8**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.4	2.00	mg/Kg	☼		07/20/23 01:21	5

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-15-S-2'-20230714
Lab Sample ID: 880-30781-15
Date Collected: 07/14/23 11:50 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.7**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		25.5	2.01	mg/Kg	☼		07/20/23 01:26	5

Client Sample ID: B-16-S-2'-20230714
Lab Sample ID: 880-30781-16
Date Collected: 07/14/23 12:00 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.6**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	767		5.07	0.401	mg/Kg	☼		07/20/23 01:31	1

Client Sample ID: B-17-S-2'-20230714
Lab Sample ID: 880-30781-17
Date Collected: 07/14/23 12:10 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.6**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		5.08	0.402	mg/Kg	☼		07/20/23 01:36	1

Client Sample ID: B-18-S-2'-20230714
Lab Sample ID: 880-30781-18
Date Collected: 07/14/23 12:20 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.4**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		5.07	0.400	mg/Kg	☼		07/20/23 01:41	1

Client Sample ID: B-19-S-2'-20230714
Lab Sample ID: 880-30781-19
Date Collected: 07/14/23 12:30 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.1**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0		5.09	0.402	mg/Kg	☼		07/20/23 01:46	1

Client Sample ID: B-20-S-2'-20230714
Lab Sample ID: 880-30781-20
Date Collected: 07/14/23 12:40 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.4**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.06	0.400	mg/Kg	☼		07/20/23 01:51	1

Client Sample ID: B-21-S-2'-20230714
Lab Sample ID: 880-30781-21
Date Collected: 07/14/23 13:00 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.8**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		5.06	0.400	mg/Kg	☼		07/19/23 14:00	1

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714
Lab Sample ID: 880-30781-22
Date Collected: 07/14/23 13:10 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.4**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		5.04	0.398	mg/Kg	☼		07/19/23 14:15	1

Client Sample ID: B-23-S-2'-20230714
Lab Sample ID: 880-30781-23
Date Collected: 07/14/23 13:20 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.7**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		5.05	0.399	mg/Kg	☼		07/19/23 14:20	1

Client Sample ID: B-24-S-2'-20230714
Lab Sample ID: 880-30781-24
Date Collected: 07/14/23 13:30 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.6**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25.5	2.01	mg/Kg	☼		07/19/23 14:35	5

Client Sample ID: B-25-S-2'-20230714
Lab Sample ID: 880-30781-25
Date Collected: 07/14/23 13:40 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.8**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.6	2.02	mg/Kg	☼		07/19/23 14:40	5

Client Sample ID: B-26-S-2'-20230714
Lab Sample ID: 880-30781-26
Date Collected: 07/14/23 13:50 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 98.3**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		5.06	0.400	mg/Kg	☼		07/19/23 14:45	1

Client Sample ID: B-27-S-2'-20230714
Lab Sample ID: 880-30781-27
Date Collected: 07/14/23 14:00 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 97.8**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		25.8	2.04	mg/Kg	☼		07/19/23 14:50	5

Client Sample ID: B-28-S-2'-20230714
Lab Sample ID: 880-30781-28
Date Collected: 07/14/23 14:10 **Matrix: Solid**
Date Received: 07/17/23 10:26 **Percent Solids: 97.1**

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		25.6	2.02	mg/Kg	☼		07/19/23 14:55	5

Preliminary Data

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-29-S-2'-20230714
Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29
Matrix: Solid
Percent Solids: 98.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3690		25.5	2.01	mg/Kg	☼		07/19/23 15:00	5

Preliminary Data

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57838/1-A
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 12:36	1

Lab Sample ID: LCS 880-57838/2-A
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57838/3-A
Matrix: Solid
Analysis Batch: 58048

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30781-21 MS
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	465		253	716.4		mg/Kg	☼	99	90 - 110

Lab Sample ID: 880-30781-21 MSD
Matrix: Solid
Analysis Batch: 58048

Client Sample ID: B-21-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	465		253	715.4		mg/Kg	☼	99	90 - 110	0	20

Lab Sample ID: MB 880-57837/1-A
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/19/23 23:18	1

Lab Sample ID: LCS 880-57837/2-A
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-57837/3-A
Matrix: Solid
Analysis Batch: 58060

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	7	20

Preliminary Data

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30781-1 MS
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	754	F1	259	978.1	F1	mg/Kg	☼	87	90 - 110

Lab Sample ID: 880-30781-1 MSD
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: B-1-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	754	F1	259	1014		mg/Kg	☼	100	90 - 110	4	20

Lab Sample ID: 880-30781-11 MS
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2090	F1	1280	3213	F1	mg/Kg	☼	88	90 - 110

Lab Sample ID: 880-30781-11 MSD
Matrix: Solid
Analysis Batch: 58060

Client Sample ID: B-11-S-2'-20230714
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090	F1	1280	3310		mg/Kg	☼	95	90 - 110	3	20

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 57837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	DI Leach	

Leach Batch: 57838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	DI Leach	
MB 880-57838/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	DI Leach	
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	DI Leach	

Analysis Batch: 58048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-22	B-22-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-23	B-23-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-24	B-24-S-2'-20230714	Soluble	Solid	300.0	57838

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-25	B-25-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-26	B-26-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-27	B-27-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-28	B-28-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-29	B-29-S-2'-20230714	Soluble	Solid	300.0	57838
MB 880-57838/1-A	Method Blank	Soluble	Solid	300.0	57838
LCS 880-57838/2-A	Lab Control Sample	Soluble	Solid	300.0	57838
LCSD 880-57838/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57838
880-30781-21 MS	B-21-S-2'-20230714	Soluble	Solid	300.0	57838
880-30781-21 MSD	B-21-S-2'-20230714	Soluble	Solid	300.0	57838

Analysis Batch: 58060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-2	B-2-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-3	B-3-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-4	B-4-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-5	B-5-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-6	B-6-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-7	B-7-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-8	B-8-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-9	B-9-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-10	B-10-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-12	B-12-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-13	B-13-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-14	B-14-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-15	B-15-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-16	B-16-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-17	B-17-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-18	B-18-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-19	B-19-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-20	B-20-S-2'-20230714	Soluble	Solid	300.0	57837
MB 880-57837/1-A	Method Blank	Soluble	Solid	300.0	57837
LCS 880-57837/2-A	Lab Control Sample	Soluble	Solid	300.0	57837
LCSD 880-57837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57837
880-30781-1 MS	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-1 MSD	B-1-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MS	B-11-S-2'-20230714	Soluble	Solid	300.0	57837
880-30781-11 MSD	B-11-S-2'-20230714	Soluble	Solid	300.0	57837

General Chemistry

Analysis Batch: 57965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-1	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-2	B-2-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-3	B-3-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-4	B-4-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-5	B-5-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-6	B-6-S-2'-20230714	Total/NA	Solid	D2216	

Preliminary Data

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 57965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-7	B-7-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-8	B-8-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-9	B-9-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-10	B-10-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11	B-11-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-12	B-12-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-13	B-13-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-14	B-14-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-15	B-15-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-16	B-16-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-17	B-17-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-18	B-18-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-19	B-19-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-20	B-20-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57965/1	Method Blank	Total/NA	Solid	D2216	
880-30781-1 DU	B-1-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-11 DU	B-11-S-2'-20230714	Total/NA	Solid	D2216	

Analysis Batch: 57966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30781-21	B-21-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-22	B-22-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-23	B-23-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-24	B-24-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-25	B-25-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-26	B-26-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-27	B-27-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-28	B-28-S-2'-20230714	Total/NA	Solid	D2216	
880-30781-29	B-29-S-2'-20230714	Total/NA	Solid	D2216	
MB 880-57966/1	Method Blank	Total/NA	Solid	D2216	
880-30781-21 DU	B-21-S-2'-20230714	Total/NA	Solid	D2216	

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-1-S-2'-20230714 — **Lab Sample ID: 880-30781-1**
Date Collected: 07/14/23 09:00 — **Matrix: Solid**
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-1-S-2'-20230714 — **Lab Sample ID: 880-30781-1**
Date Collected: 07/14/23 09:00 — **Matrix: Solid**
Date Received: 07/17/23 10:26 — **Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:33	CH	EET MID

Client Sample ID: B-2-S-2'-20230714 — **Lab Sample ID: 880-30781-2**
Date Collected: 07/14/23 09:10 — **Matrix: Solid**
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-2-S-2'-20230714 — **Lab Sample ID: 880-30781-2**
Date Collected: 07/14/23 09:10 — **Matrix: Solid**
Date Received: 07/17/23 10:26 — **Percent Solids: 96.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:48	CH	EET MID

Client Sample ID: B-3-S-2'-20230714 — **Lab Sample ID: 880-30781-3**
Date Collected: 07/14/23 09:20 — **Matrix: Solid**
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-3-S-2'-20230714 — **Lab Sample ID: 880-30781-3**
Date Collected: 07/14/23 09:20 — **Matrix: Solid**
Date Received: 07/17/23 10:26 — **Percent Solids: 94.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:54	CH	EET MID

Client Sample ID: B-4-S-2'-20230714 — **Lab Sample ID: 880-30781-4**
Date Collected: 07/14/23 09:30 — **Matrix: Solid**
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-4-S-2'-20230714
Date Collected: 07/14/23 09:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-4
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/19/23 23:59	CH	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-5-S-2'-20230714
Date Collected: 07/14/23 09:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:04	CH	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-6-S-2'-20230714
Date Collected: 07/14/23 09:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-6
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:19	CH	EET MID

Client Sample ID: B-7-S-2'-20230714
Date Collected: 07/14/23 10:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-7-S-2'-20230714
Lab Sample ID: 880-30781-7
Date Collected: 07/14/23 10:00
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:24	CH	EET MID

Client Sample ID: B-8-S-2'-20230714
Lab Sample ID: 880-30781-8
Date Collected: 07/14/23 10:10
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-8-S-2'-20230714
Lab Sample ID: 880-30781-8
Date Collected: 07/14/23 10:10
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 00:29	CH	EET MID

Client Sample ID: B-9-S-2'-20230714
Lab Sample ID: 880-30781-9
Date Collected: 07/14/23 10:20
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-9-S-2'-20230714
Lab Sample ID: 880-30781-9
Date Collected: 07/14/23 10:20
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:35	CH	EET MID

Client Sample ID: B-10-S-2'-20230714
Lab Sample ID: 880-30781-10
Date Collected: 07/14/23 10:30
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-10-S-2'-20230714
Date Collected: 07/14/23 10:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-10
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		10			58060	07/20/23 00:40	CH	EET MID

Client Sample ID: B-11-S-2'-20230714
Date Collected: 07/14/23 10:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-11-S-2'-20230714
Date Collected: 07/14/23 10:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-11
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 00:45	CH	EET MID

Client Sample ID: B-12-S-2'-20230714
Date Collected: 07/14/23 11:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-12-S-2'-20230714
Date Collected: 07/14/23 11:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-12
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:00	CH	EET MID

Client Sample ID: B-13-S-2'-20230714
Date Collected: 07/14/23 11:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-13-S-2'-20230714
Lab Sample ID: 880-30781-13
Date Collected: 07/14/23 11:30
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:05	CH	EET MID

Client Sample ID: B-14-S-2'-20230714
Lab Sample ID: 880-30781-14
Date Collected: 07/14/23 11:40
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-14-S-2'-20230714
Lab Sample ID: 880-30781-14
Date Collected: 07/14/23 11:40
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:21	CH	EET MID

Client Sample ID: B-15-S-2'-20230714
Lab Sample ID: 880-30781-15
Date Collected: 07/14/23 11:50
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-15-S-2'-20230714
Lab Sample ID: 880-30781-15
Date Collected: 07/14/23 11:50
Matrix: Solid
Date Received: 07/17/23 10:26
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		5			58060	07/20/23 01:26	CH	EET MID

Client Sample ID: B-16-S-2'-20230714
Lab Sample ID: 880-30781-16
Date Collected: 07/14/23 12:00
Matrix: Solid
Date Received: 07/17/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-16-S-2'-20230714
Date Collected: 07/14/23 12:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-16
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:31	CH	EET MID

Client Sample ID: B-17-S-2'-20230714
Date Collected: 07/14/23 12:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-17-S-2'-20230714
Date Collected: 07/14/23 12:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-17
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:36	CH	EET MID

Client Sample ID: B-18-S-2'-20230714
Date Collected: 07/14/23 12:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-18-S-2'-20230714
Date Collected: 07/14/23 12:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-18
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:41	CH	EET MID

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-19-S-2'-20230714
Date Collected: 07/14/23 12:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-19
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:46	CH	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57965	07/18/23 15:09	SMC	EET MID

Client Sample ID: B-20-S-2'-20230714
Date Collected: 07/14/23 12:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-20
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57837	07/17/23 12:19	KS	EET MID
Soluble	Analysis	300.0		1			58060	07/20/23 01:51	CH	EET MID

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-21-S-2'-20230714
Date Collected: 07/14/23 13:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-21
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:00	CH	EET MID

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-22-S-2'-20230714
Date Collected: 07/14/23 13:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-22
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:15	CH	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-23-S-2'-20230714
Date Collected: 07/14/23 13:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-23
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:20	CH	EET MID

Client Sample ID: B-24-S-2'-20230714
Date Collected: 07/14/23 13:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-24-S-2'-20230714
Date Collected: 07/14/23 13:30
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-24
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:35	CH	EET MID

Client Sample ID: B-25-S-2'-20230714
Date Collected: 07/14/23 13:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-25-S-2'-20230714
Date Collected: 07/14/23 13:40
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-25
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:40	CH	EET MID

Client Sample ID: B-26-S-2'-20230714
Date Collected: 07/14/23 13:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-26-S-2'-20230714
Date Collected: 07/14/23 13:50
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-26
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		1			58048	07/19/23 14:45	CH	EET MID

Client Sample ID: B-27-S-2'-20230714
Date Collected: 07/14/23 14:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-27-S-2'-20230714
Date Collected: 07/14/23 14:00
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-27
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:50	CH	EET MID

Client Sample ID: B-28-S-2'-20230714
Date Collected: 07/14/23 14:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Preliminary Data

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Client Sample ID: B-28-S-2'-20230714
Date Collected: 07/14/23 14:10
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-28
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 14:55	CH	EET MID

Client Sample ID: B-29-S-2'-20230714
Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			57966	07/18/23 15:14	SMC	EET MID

Client Sample ID: B-29-S-2'-20230714
Date Collected: 07/14/23 14:20
Date Received: 07/17/23 10:26

Lab Sample ID: 880-30781-29
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	57838	07/19/23 12:21	KS	EET MID
Soluble	Analysis	300.0		5			58048	07/19/23 15:00	CH	EET MID

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

Preliminary Data

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D2216		Solid	Percent Solids

Preliminary Data

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency

Laboratory References:

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

Preliminary Data

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30781-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30781-1	B-1-S-2'-20230714	Solid	07/14/23 09:00	07/17/23 10:26
880-30781-2	B-2-S-2'-20230714	Solid	07/14/23 09:10	07/17/23 10:26
880-30781-3	B-3-S-2'-20230714	Solid	07/14/23 09:20	07/17/23 10:26
880-30781-4	B-4-S-2'-20230714	Solid	07/14/23 09:30	07/17/23 10:26
880-30781-5	B-5-S-2'-20230714	Solid	07/14/23 09:40	07/17/23 10:26
880-30781-6	B-6-S-2'-20230714	Solid	07/14/23 09:50	07/17/23 10:26
880-30781-7	B-7-S-2'-20230714	Solid	07/14/23 10:00	07/17/23 10:26
880-30781-8	B-8-S-2'-20230714	Solid	07/14/23 10:10	07/17/23 10:26
880-30781-9	B-9-S-2'-20230714	Solid	07/14/23 10:20	07/17/23 10:26
880-30781-10	B-10-S-2'-20230714	Solid	07/14/23 10:30	07/17/23 10:26
880-30781-11	B-11-S-2'-20230714	Solid	07/14/23 10:40	07/17/23 10:26
880-30781-12	B-12-S-2'-20230714	Solid	07/14/23 11:20	07/17/23 10:26
880-30781-13	B-13-S-2'-20230714	Solid	07/14/23 11:30	07/17/23 10:26
880-30781-14	B-14-S-2'-20230714	Solid	07/14/23 11:40	07/17/23 10:26
880-30781-15	B-15-S-2'-20230714	Solid	07/14/23 11:50	07/17/23 10:26
880-30781-16	B-16-S-2'-20230714	Solid	07/14/23 12:00	07/17/23 10:26
880-30781-17	B-17-S-2'-20230714	Solid	07/14/23 12:10	07/17/23 10:26
880-30781-18	B-18-S-2'-20230714	Solid	07/14/23 12:20	07/17/23 10:26
880-30781-19	B-19-S-2'-20230714	Solid	07/14/23 12:30	07/17/23 10:26
880-30781-20	B-20-S-2'-20230714	Solid	07/14/23 12:40	07/17/23 10:26
880-30781-21	B-21-S-2'-20230714	Solid	07/14/23 13:00	07/17/23 10:26
880-30781-22	B-22-S-2'-20230714	Solid	07/14/23 13:10	07/17/23 10:26
880-30781-23	B-23-S-2'-20230714	Solid	07/14/23 13:20	07/17/23 10:26
880-30781-24	B-24-S-2'-20230714	Solid	07/14/23 13:30	07/17/23 10:26
880-30781-25	B-25-S-2'-20230714	Solid	07/14/23 13:40	07/17/23 10:26
880-30781-26	B-26-S-2'-20230714	Solid	07/14/23 13:50	07/17/23 10:26
880-30781-27	B-27-S-2'-20230714	Solid	07/14/23 14:00	07/17/23 10:26
880-30781-28	B-28-S-2'-20230714	Solid	07/14/23 14:10	07/17/23 10:26
880-30781-29	B-29-S-2'-20230714	Solid	07/14/23 14:20	07/17/23 10:26

Preliminary Data

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

Chain of Custody Record

eurofins | Environment Testing

30781

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 5
Client Contact: Justin Nixon	Phone: 575-942 0292	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~1 of 2~~ 1 of 3
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-1-S-2'-20230714	7/14/23	900	C	Solid			X		
B-2-S-2'-20230714		910		Solid			X		
B-3-S-2'-20230714		920		Solid			X		
B-4-S-2'-20230714		930		Solid			X		
B-5-S-2'-20230714		940		Solid			X		
B-6-S-2'-20230714		950		Solid			X		
B-7-S-2'-20230714		1000		Solid			X		
B-8-S-2'-20230714		1010		Solid			X		
B-9-S-2'-20230714		1020		Solid			X		
B-10-S-2'-20230714		1030		Solid			X		
B-11-S-2'-20230714		1040	X	Solid			X		

880-30781 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by:	Date/Time: 7/14/23 1506	Company: Arcadis	Received by:	Date/Time: 7/14/23 307	Company
Relinquished by:	Date/Time: 7/14/23 310	Company	Received by:	Date/Time: 7/17/23	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1026	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.0/27

Ver: 01/16/2019

eRecord Submitted

Page 258 of 406
Received by OCD: 5/15/2024 3:02:47 PM
7/21/2023
Page 29 of 32
Released to Imaging: 6/3/2024 2:55:09 PM

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

Chain of Custody Record

eurofins | Environment Testing

30191

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 6
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~Page 2~~ 2 of 3
Company: ARCADIS U S Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify); Other:
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-12-S-2'-20230714	7/14/23	1120	C	Solid			X		
B-13-S-2'-20230714		1130		Solid			X		
B-14-S-2'-20230714		1140		Solid			X		
B-15-S-2'-20230714		1150		Solid			X		
B-16-S-2'-20230714		1200		Solid			X		
B-17-S-2'-20230714		1210		Solid			X		
B-18-S-2'-20230714		1220		Solid			X		
B-19-S-2'-20230714		1230		Solid			X		
B-20-S-2'-20230714		1240		Solid			X		
B-21-S-2'-20230714		1300		Solid			X		
B-22-S-2'-20230714		1310		Solid			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/23 1507	Arcadis		7/14/23 307	
2		7/14/23 310			7/17/23 1026	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Published Submitted

Received by OCD: 5/15/2024 3:02:47 PM
Released to Imaging: 6/3/2024 2:55:09 PM
7/21/2023

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

Chain of Custody Record

eurofins | Environment Testing

30781

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 8
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~8 of 32~~ 3 of 3
Company: ARCADIS U S Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-23-S-2'-20230714	7/14/23	1320	C	Solid			X		
B-24-S-2'-20230714		1330		Solid			X		
B-25-S-2'-20230714		1340		Solid			X		
B-26-S-2'-20230714		1350		Solid			X		
B-27-S-2'-20230714		1400		Solid			X		
B-28-S-2'-20230714		1410		Solid			X		
B-29-S-2'-20230714	X	1420	X	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					

Loc: 880
30781

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/23 1507	Arcadis		7-14-23 307	
2		7/14/23 310			7/17/23	
3		Date/Time	Company	Received by	Date/Time 1026	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Released to Imaging: 6/3/2024 2:55:09 PM

Received by OCD: 5/15/2024 3:02:47 PM

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7/21/2023

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30781-1
SDG Number: Eddy County, NM

Login Number: 30781
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Pre Liminary Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/31/2023 2:29:30 PM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30947-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
7/31/2023 2:29:30 PM

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

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Laboratory Job ID: 880-30947-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Job ID: 880-30947-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30947-1

Receipt
The samples were received on 7/19/2023 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-74-S-2'-20230717 (880-30947-1) and B-75-S-2'-20230717 (880-30947-2).

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

GC Semi VOA
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.

General Chemistry
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: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-74-S-2'-20230717

Lab Sample ID: 880-30947-1
Date Collected: 07/17/23 16:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000396	U	0.00206	0.000396	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1
Toluene	<0.000470	U	0.00206	0.000470	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1
Ethylbenzene	<0.000582	U	0.00206	0.000582	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1
o-Xylene	<0.000354	U	0.00206	0.000354	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/28/23 09:41	07/28/23 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/28/23 09:41*	*07/28/23 12:41*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/28/23 09:41*	*07/28/23 12:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00412	0.00104	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.5**		50.7	15.2	mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 10:27	07/28/23 18:47	1
Diesel Range Organics (Over C10-C28)	**63.5**		50.7	15.2	mg/Kg	☼	07/27/23 10:27	07/28/23 18:47	1
OII Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 10:27	07/28/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/27/23 10:27*	*07/28/23 18:47*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/27/23 10:27*	*07/28/23 18:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**989**		5.05	0.399	mg/Kg			07/21/23 21:46	1

Client Sample ID: B-75-S-2'-20230717

Lab Sample ID: 880-30947-2
Date Collected: 07/17/23 16:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:02*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:02*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-75-S-2'-20230717

Date Collected: 07/17/23 16:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30947-2

Matrix: Solid
Percent Solids: 98.1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.4**		50.7	15.2	mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 10:26	07/28/23 19:09	1
Diesel Range Organics (Over C10-C28)	**52.4**		50.7	15.2	mg/Kg	☼	07/27/23 10:26	07/28/23 19:09	1
OII Range Organics (Over C28-C36)	<15.2	U	50.7	15.2	mg/Kg	☼	07/27/23 10:26	07/28/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/27/23 10:26*	*07/28/23 19:09*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/27/23 10:26*	*07/28/23 19:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2140**		24.8	1.96	mg/Kg			07/21/23 21:52	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30947-1	B-74-S-2'-20230717	106	108
880-30947-2	B-75-S-2'-20230717	110	109
LCS 880-58702/1-A	Lab Control Sample	119	98
LCSD 880-58702/2-A	Lab Control Sample Dup	120	98
MB 880-58702/5-A	Method Blank	98	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30947-1	B-74-S-2'-20230717	76	85
880-30947-2	B-75-S-2'-20230717	75	85
LCS 880-58649/2-A	Lab Control Sample	93	96
LCSD 880-58649/3-A	Lab Control Sample Dup	93	94
MB 880-58649/1-A	Method Blank	85	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58702/5-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/28/23 09:41*	*07/28/23 11:38*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/28/23 09:41*	*07/28/23 11:38*	*1*

Lab Sample ID: LCS 880-58702/1-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58702

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09809		mg/Kg		98	70 - 130		
Toluene			0.100	0.1115		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1077		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2123		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1058		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-58702/2-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58702

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	6	35
Toluene			0.100	0.1167		mg/Kg		117	70 - 130	5	35
Ethylbenzene			0.100	0.1097		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2134		mg/Kg		107	70 - 130	1	35
o-Xylene			0.100	0.1067		mg/Kg		107	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58649/1-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 10:26	07/28/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/27/23 10:26*	*07/28/23 08:17*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/27/23 10:26*	*07/28/23 08:17*	*1*

Lab Sample ID: LCS 880-58649/2-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	705.1		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	987.8		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-58649/3-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	719.8		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	961.6		mg/Kg		96	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58052/1-A
Matrix: Solid
Analysis Batch: 58251

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/21/23 19:18	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-58052/2-A
Matrix: Solid
Analysis Batch: 58251

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-58052/3-A
Matrix: Solid
Analysis Batch: 58251

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.8		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 58692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8021B	58702
MB 880-58702/5-A	Method Blank	Total/NA	Solid	8021B	58702
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	8021B	58702
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58702

Prep Batch: 58702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	5030B	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58702/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015B NM	58649
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015B NM	58649
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015B NM	58649
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58649
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58649

Analysis Batch: 58894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Soluble	Solid	DI Leach	
880-30947-2	B-75-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58052/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58052/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58052/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 58251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Soluble	Solid	300.0	58052
880-30947-2	B-75-S-2'-20230717	Soluble	Solid	300.0	58052
MB 880-58052/1-A	Method Blank	Soluble	Solid	300.0	58052
LCS 880-58052/2-A	Lab Control Sample	Soluble	Solid	300.0	58052
LCSD 880-58052/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58052

General Chemistry

Analysis Batch: 58227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30947-1	B-74-S-2'-20230717	Total/NA	Solid	D2216	
880-30947-2	B-75-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58227/1	Method Blank	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Client Sample ID: B-74-S-2'-20230717
Date Collected: 07/17/23 16:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30947-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58819	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58894	07/31/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58052	07/20/23 16:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58251	07/21/23 21:46	CH	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-74-S-2'-20230717
Date Collected: 07/17/23 16:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30947-1
Matrix: Solid
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58649	07/27/23 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 18:47	AJ	EET MID

Client Sample ID: B-75-S-2'-20230717
Date Collected: 07/17/23 16:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30947-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58819	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58894	07/31/23 15:10	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58052	07/20/23 16:00	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58251	07/21/23 21:52	CH	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-75-S-2'-20230717
Date Collected: 07/17/23 16:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30947-2
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 19:09	AJ	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 880-30947-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy 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
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30947-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30947-1	B-74-S-2'-20230717	Solid	07/17/23 16:20	07/19/23 11:55
880-30947-2	B-75-S-2'-20230717	Solid	07/17/23 16:30	07/19/23 11:55

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~ 1 vv Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins 30947 | Environment Testing

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: Justin Nixon	Phone: 575-942-0292	Builes John		880-5081-624 18
Company: ARCADIS U S., Inc.	PWSID	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page 1 of 1
Address: 1004 North Big Spring Suite 300	Due Date Requested			Job #:
City: Midland	TAT Requested (days): Standard			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code				N		
B-74-S-2'-20230717	7/17/23	1620	C	Solid			X		
B-75-S-2'-20230717	7/17/23	1630	C	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

880-30947 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested I II III IV Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:
Relinquished by:	Date/Time: 7/18/23 856	Company: Arcadis	Received by:	Date/Time: 7-18-23 856	Company
Relinquished by:	Date/Time: 7-18-23 8:56	Company	Received by:	Date/Time: 7/18/23	
Relinquished by:	Date/Time:	Company	Received by:		

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C

Received by OCD: 5/15/2024 3:02:47 PM

Released to Imaging: 6/3/2024 2:55:09 PM

7/31/2023

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30947-1
SDG Number: Eddy County, NM

Login Number: 30947
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/3/2023 10:19:48 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County, NM

JOB NUMBER

880-30948-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 8/3/2024 2:53:09 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
8/3/2023 10:19:48 AM

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

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 880-30948-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Glossary (Continued)

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Job ID: 880-30948-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30948-1

Receipt
The samples were received on 7/19/2023 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-58638 and analytical batch 880-58621 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 CCV was biased low for both diesel and gasoline hydrocarbons. Another CCV was analyzed and acceptable within 12 hours; therefore, the data was qualified and reported.(CCV 880-58684/31)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-30-S-2'-20230717 (880-30948-1), B-31-S-2'-20230717 (880-30948-2), B-32-S-2'-20230717 (880-30948-3), B-33-S-2'-20230717 (880-30948-4), B-34-S-2'-20230717 (880-30948-5), B-35-S-2'-20230717 (880-30948-6), B-36-S-2'-20230717 (880-30948-7), B-37-S-2'-20230717 (880-30948-8), B-38-S-2'-20230717 (880-30948-9), B-39-S-2'-20230717 (880-30948-10), B-40-S-2'-20230717 (880-30948-11), (MB 880-58652/1-A), (880-30781-A-22-F MS) and (880-30781-A-22-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-59067 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59067/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59067/31), (CCV 880-59067/47) and (CCV 880-59067/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58804 and analytical batch 880-59067 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-43-S-2'-20230717 (880-30948-14), B-44-S-2'-20230717 (880-30948-15), B-45-S-2'-20230717 (880-30948-16), B-46-S-2'-20230717 (880-30948-17), B-50-S-2'-20230717 (880-30948-21), B-54-S-2'-20230717 (880-30948-25) and (880-30948-A-15-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-58804 and analytical batch 880-59067 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-58806 and analytical batch 880-59069 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-30948-A-40-E MS) and (880-30948-A-40-F 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: B-66-S-2'-20230717 (880-30948-37), B-71-S-2'-20230717 (880-30948-42) and B-72-S-2'-20230717 (880-30948-43). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Job ID: 880-30948-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58806 and analytical batch 880-59069 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58051 and 880-58051 and analytical batch 880-58466 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.

General Chemistry

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: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-30-S-2'-20230717

Lab Sample ID: 880-30948-1
Date Collected: 07/17/23 09:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000406**	**J B**	0.00203	0.000390	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1
Toluene	<0.000462	U	0.00203	0.000462	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1
Ethylbenzene	<0.000572	U *+	0.00203	0.000572	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 01:38*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 09:19*	*07/28/23 01:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.7**		50.9	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 03:32	1
Diesel Range Organics (Over C10-C28)	**85.7**		50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 03:32	1
OII Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 03:32*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/27/23 11:54*	*07/29/23 03:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		25.3	2.00	mg/Kg	☼		07/25/23 08:58	5

Client Sample ID: B-31-S-2'-20230717

Lab Sample ID: 880-30948-2
Date Collected: 07/17/23 09:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1
Ethylbenzene	<0.000580	U *+	0.00205	0.000580	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:05*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:05*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-31-S-2'-20230717

Lab Sample ID: 880-30948-2
Date Collected: 07/17/23 09:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.3

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**92.5**		51.2	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:14	1
Diesel Range Organics (Over C10-C28)	**92.5**		51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:14	1
OII Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 04:14*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**610**		5.05	0.399	mg/Kg	☼		07/25/23 09:13	1

Client Sample ID: B-32-S-2'-20230717

Lab Sample ID: 880-30948-3
Date Collected: 07/17/23 09:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000553**	**J B**	0.00205	0.000394	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1
Ethylbenzene	<0.000578	U *+	0.00205	0.000578	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**113**		51.4	15.4	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.4	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:36	1
Diesel Range Organics (Over C10-C28)	**113**		51.4	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:36	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-32-S-2'-20230717

Lab Sample ID: 880-30948-3
Date Collected: 07/17/23 09:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☼	07/27/23 11:54	07/29/23 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 04:36*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 04:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		25.3	2.00	mg/Kg	☼		07/25/23 09:18	5

Client Sample ID: B-33-S-2'-20230717

Lab Sample ID: 880-30948-4
Date Collected: 07/17/23 09:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000397	U	0.00206	0.000397	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1
Toluene	<0.000471	U	0.00206	0.000471	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1
Ethylbenzene	<0.000583	U *+	0.00206	0.000583	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1
o-Xylene	<0.000355	U	0.00206	0.000355	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:57*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/27/23 09:19*	*07/28/23 02:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**178**		51.1	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:29	1
Diesel Range Organics (Over C10-C28)	**178**		51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:29	1
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 02:29*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/27/23 11:54*	*07/29/23 02:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2280**		25.7	2.03	mg/Kg	☼		07/25/23 09:23	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-34-S-2'-20230717

Lab Sample ID: 880-30948-5
Date Collected: 07/17/23 09:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1
Ethylbenzene	<0.000570	U *+	0.00202	0.000570	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 03:23*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/27/23 09:19*	*07/28/23 03:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**227**		50.6	15.2	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/29/23 03:11	1
Diesel Range Organics (Over C10-C28)	**227**		50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/29/23 03:11	1
OII Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	07/27/23 11:54	07/29/23 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 03:11*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/27/23 11:54*	*07/29/23 03:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		25.4	2.01	mg/Kg	☼		07/25/23 09:28	5

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6
Date Collected: 07/17/23 09:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000508	U	0.00264	0.000508	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1
Toluene	<0.000602	U	0.00264	0.000602	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1
Ethylbenzene	<0.000746	U *+	0.00264	0.000746	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1
m-Xylene & p-Xylene	<0.00133	U	0.00528	0.00133	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1
o-Xylene	<0.000454	U	0.00264	0.000454	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1
Xylenes, Total	<0.00133	U	0.00528	0.00133	mg/Kg	☼	07/27/23 09:19	07/28/23 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15*	*S1-*	*70 - 130*	*07/27/23 09:19*	*07/28/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/27/23 09:19*	*07/28/23 03:49*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-35-S-2'-20230717

Lab Sample ID: 880-30948-6
Date Collected: 07/17/23 09:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 75.0

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00133	U	0.00528	0.00133	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**20.1**	**J**	66.3	19.9	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<19.9	U	66.3	19.9	mg/Kg	☼	07/27/23 11:54	07/29/23 01:26	1
Diesel Range Organics (Over C10-C28)	**20.1**	**J**	66.3	19.9	mg/Kg	☼	07/27/23 11:54	07/29/23 01:26	1
OII Range Organics (Over C28-C36)	<19.9	U	66.3	19.9	mg/Kg	☼	07/27/23 11:54	07/29/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 01:26*	*1*
o-Terphenyl	*128*		*70 - 130*	*07/27/23 11:54*	*07/29/23 01:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**544**		6.67	0.527	mg/Kg	☼		07/25/23 09:43	1

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7
Date Collected: 07/17/23 10:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1
Toluene	<0.000468	U	0.00205	0.000468	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1
Ethylbenzene	<0.000580	U *+	0.00205	0.000580	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 09:19	07/28/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 04:15*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/27/23 09:19*	*07/28/23 04:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**141**		51.8	15.6	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.6	U	51.8	15.6	mg/Kg	☼	07/27/23 11:54	07/29/23 03:53	1
Diesel Range Organics (Over C10-C28)	**141**		51.8	15.6	mg/Kg	☼	07/27/23 11:54	07/29/23 03:53	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-36-S-2'-20230717

Lab Sample ID: 880-30948-7
Date Collected: 07/17/23 10:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.6	U	51.8	15.6	mg/Kg	☼	07/27/23 11:54	07/29/23 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 03:53*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/27/23 11:54*	*07/29/23 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2380**		26.1	2.06	mg/Kg	☼		07/25/23 09:48	5

Client Sample ID: B-37-S-2'-20230717

Lab Sample ID: 880-30948-8
Date Collected: 07/17/23 10:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1
Ethylbenzene	<0.000577	U *+	0.00204	0.000577	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 04:41*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 09:19*	*07/28/23 04:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**249**		50.9	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:50	1
Diesel Range Organics (Over C10-C28)	**249**		50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:50	1
OII Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 02:50*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/27/23 11:54*	*07/29/23 02:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		25.3	2.00	mg/Kg	☼		07/25/23 09:53	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-38-S-2'-20230717

Lab Sample ID: 880-30948-9
Date Collected: 07/17/23 10:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000435	U	0.00226	0.000435	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1
Toluene	<0.000515	U	0.00226	0.000515	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1
Ethylbenzene	<0.000638	U *+	0.00226	0.000638	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1
m-Xylene & p-Xylene	<0.00114	U	0.00452	0.00114	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1
o-Xylene	<0.000389	U	0.00226	0.000389	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1
Xylenes, Total	<0.00114	U	0.00452	0.00114	mg/Kg	☼	07/27/23 09:19	07/28/23 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 05:07*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/27/23 09:19*	*07/28/23 05:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00114	U	0.00452	0.00114	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.6**		55.5	16.7	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<16.7	U	55.5	16.7	mg/Kg	☼	07/27/23 11:54	07/29/23 00:43	1
Diesel Range Organics (Over C10-C28)	**85.6**		55.5	16.7	mg/Kg	☼	07/27/23 11:54	07/29/23 00:43	1
OII Range Organics (Over C28-C36)	<16.7	U	55.5	16.7	mg/Kg	☼	07/27/23 11:54	07/29/23 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 00:43*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/27/23 11:54*	*07/29/23 00:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**954**		5.62	0.444	mg/Kg	☼		07/25/23 09:58	1

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10
Date Collected: 07/17/23 10:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000577**	**J B**	0.00203	0.000391	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1
Ethylbenzene	<0.000574	U *+	0.00203	0.000574	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 05:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 09:19*	*07/28/23 05:33*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-39-S-2'-20230717

Lab Sample ID: 880-30948-10
Date Collected: 07/17/23 10:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**187**		50.4	15.1	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 02:08	1
Diesel Range Organics (Over C10-C28)	**187**		50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 02:08	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/27/23 11:54	07/29/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 02:08*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/27/23 11:54*	*07/29/23 02:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1940**		25.5	2.02	mg/Kg	☼		07/25/23 10:03	5

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11
Date Collected: 07/17/23 10:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000419**	**J B**	0.00202	0.000390	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1
Toluene	<0.000462	U	0.00202	0.000462	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1
Ethylbenzene	<0.000572	U *+	0.00202	0.000572	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/27/23 09:19*	*07/28/23 07:18*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/27/23 09:19*	*07/28/23 07:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**266**		51.0	15.3	mg/Kg			07/31/23 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 01:47	1
Diesel Range Organics (Over C10-C28)	**266**		51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 01:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-40-S-2'-20230717

Lab Sample ID: 880-30948-11
Date Collected: 07/17/23 10:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/27/23 11:54	07/29/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*07/27/23 11:54*	*07/29/23 01:47*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/27/23 11:54*	*07/29/23 01:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		25.2	1.99	mg/Kg	☼		07/25/23 10:08	5

Client Sample ID: B-41S-2'-20230717

Lab Sample ID: 880-30948-12
Date Collected: 07/17/23 10:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Ethylbenzene	<0.000568	U *+	0.00201	0.000568	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 07:45*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 09:19*	*07/28/23 07:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**170**		50.4	15.1	mg/Kg			07/31/23 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1
Diesel Range Organics (Over C10-C28)	**170**		50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/28/23 17:25	07/31/23 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/28/23 17:25*	*07/31/23 06:37*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/28/23 17:25*	*07/31/23 06:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		25.1	1.99	mg/Kg	☼		07/25/23 10:22	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-42-S-2'-20230717

Lab Sample ID: 880-30948-13
Date Collected: 07/17/23 11:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000457**	**J B**	0.00205	0.000394	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1
Ethylbenzene	<0.000579	U *+	0.00205	0.000579	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/27/23 09:19*	*07/28/23 08:11*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/27/23 09:19*	*07/28/23 08:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**91.0**		51.6	15.5	mg/Kg			07/31/23 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.5	U	51.6	15.5	mg/Kg	☼	07/28/23 17:25	07/31/23 06:58	1
Diesel Range Organics (Over C10-C28)	**91.0**		51.6	15.5	mg/Kg	☼	07/28/23 17:25	07/31/23 06:58	1
OII Range Organics (Over C28-C36)	<15.5	U	51.6	15.5	mg/Kg	☼	07/28/23 17:25	07/31/23 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/28/23 17:25*	*07/31/23 06:58*	*1*
o-Terphenyl	*76*		*70 - 130*	*07/28/23 17:25*	*07/31/23 06:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2690**		25.4	2.00	mg/Kg	☼		07/25/23 10:27	5

Client Sample ID: B-43-S-2'-20230717

Lab Sample ID: 880-30948-14
Date Collected: 07/17/23 11:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000577**	**J B**	0.00262	0.000504	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1
Toluene	<0.000597	U	0.00262	0.000597	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1
Ethylbenzene	<0.000739	U *+	0.00262	0.000739	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1
m-Xylene & p-Xylene	<0.00132	U	0.00523	0.00132	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1
o-Xylene	<0.000450	U	0.00262	0.000450	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1
Xylenes, Total	<0.00132	U	0.00523	0.00132	mg/Kg	☼	07/27/23 09:19	07/28/23 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 09:05*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 09:19*	*07/28/23 09:05*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-43-S-2'-20230717

Lab Sample ID: 880-30948-14
Date Collected: 07/17/23 11:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 76.0

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00132	U	0.00523	0.00132	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.5**	**J**	66.4	19.9	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**36.7**	**J B**	66.4	19.9	mg/Kg	☼	07/31/23 08:29	08/02/23 21:11	1
Diesel Range Organics (Over C10-C28)	**23.8**	**J B**	66.4	19.9	mg/Kg	☼	07/31/23 08:29	08/02/23 21:11	1
OII Range Organics (Over C28-C36)	<19.9	U	66.4	19.9	mg/Kg	☼	07/31/23 08:29	08/02/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/02/23 21:11*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/02/23 21:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**355**		6.62	0.523	mg/Kg	☼		07/25/23 10:42	1

Client Sample ID: B-44-S-2'-20230717

Lab Sample ID: 880-30948-15
Date Collected: 07/17/23 11:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000403**	**J B**	0.00201	0.000387	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1
Ethylbenzene	<0.000568	U *+	0.00201	0.000568	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*07/27/23 09:19*	*07/28/23 09:31*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/27/23 09:19*	*07/28/23 09:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**86.8**		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.9**	**J B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 20:06	1
Diesel Range Organics (Over C10-C28)	**60.9**	**B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 20:06	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-44-S-2'-20230717

Lab Sample ID: 880-30948-15
Date Collected: 07/17/23 11:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/02/23 20:06*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/31/23 08:29*	*08/02/23 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**538**		5.08	0.401	mg/Kg	☼		07/25/23 10:47	1

Client Sample ID: B-45-S-2'-20230717

Lab Sample ID: 880-30948-16
Date Collected: 07/17/23 11:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000402**	**J B**	0.00205	0.000394	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1
Toluene	<0.000467	U	0.00205	0.000467	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1
Ethylbenzene	<0.000579	U *+	0.00205	0.000579	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1
m-Xylene & p-Xylene	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1
o-Xylene	<0.000352	U	0.00205	0.000352	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1
Xylenes, Total	<0.00103	U	0.00410	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 09:57*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/27/23 09:19*	*07/28/23 09:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00410	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**140**		51.2	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**29.2**	**J B**	51.2	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 03:58	1
Diesel Range Organics (Over C10-C28)	**111**	**B**	51.2	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 03:58	1
OII Range Organics (Over C28-C36)	<15.3	U	51.2	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/03/23 03:58*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/31/23 08:29*	*08/03/23 03:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		25.7	2.03	mg/Kg	☼		07/25/23 10:52	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-46-S-2'-20230717

Lab Sample ID: 880-30948-17
Date Collected: 07/17/23 11:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000707**	**J B**	0.00269	0.000518	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Toluene	<0.000613	U	0.00269	0.000613	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Ethylbenzene	<0.000760	U *+	0.00269	0.000760	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
m-Xylene & p-Xylene	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
o-Xylene	<0.000463	U	0.00269	0.000463	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1
Xylenes, Total	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 09:19	07/28/23 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 10:23*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/27/23 09:19*	*07/28/23 10:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00136	U	0.00538	0.00136	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**82.3**		66.6	20.0	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.3**	**J B**	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1
Diesel Range Organics (Over C10-C28)	**41.0**	**J B**	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1
OII Range Organics (Over C28-C36)	<20.0	U	66.6	20.0	mg/Kg	☼	07/31/23 08:29	08/02/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/02/23 21:33*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/31/23 08:29*	*08/02/23 21:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		6.72	0.531	mg/Kg	☼		07/25/23 10:57	1

Client Sample ID: B-47-S-2'-20230717

Lab Sample ID: 880-30948-18
Date Collected: 07/17/23 11:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000430**	**J B**	0.00202	0.000388	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Ethylbenzene	<0.000570	U *+	0.00202	0.000570	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 10:49*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 09:19*	*07/28/23 10:49*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-47-S-2'-20230717

Lab Sample ID: 880-30948-18
Date Collected: 07/17/23 11:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**202**		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**19.1**	**J B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:32	1
Diesel Range Organics (Over C10-C28)	**183**	**B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:32	1
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:32*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**984**		25.2	1.99	mg/Kg	☼		07/25/23 11:02	5

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19
Date Collected: 07/17/23 12:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000397**	**J B**	0.00203	0.000391	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1
Ethylbenzene	<0.000573	U *+	0.00203	0.000573	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 09:19	07/28/23 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 11:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 09:19*	*07/28/23 11:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**217**		50.9	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.6**	**J B**	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:54	1
Diesel Range Organics (Over C10-C28)	**191**	**B**	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:54	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-48-S-2'-20230717

Lab Sample ID: 880-30948-19
Date Collected: 07/17/23 12:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:54*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1450**		25.3	2.00	mg/Kg	☼		07/25/23 11:07	5

Client Sample ID: B-49-S-2'-20230717

Lab Sample ID: 880-30948-20
Date Collected: 07/17/23 12:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.6

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	☼	07/27/23 09:19	07/28/23 11:41	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg	☼	07/27/23 09:19	07/28/23 11:41	1
Ethylbenzene	<0.000570	U *+	0.00202	0.000570	mg/Kg	☼	07/27/23 09:19	07/28/23 11:41	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 11:41	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	☼	07/27/23 09:19	07/28/23 11:41	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 09:19	07/28/23 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*07/27/23 09:19*	*07/28/23 11:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/27/23 09:19*	*07/28/23 11:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			07/28/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**174**		51.2	15.4	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 03:15	1
Diesel Range Organics (Over C10-C28)	**174**	**B**	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 03:15	1
OII Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/31/23 08:29*	*08/03/23 03:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/31/23 08:29*	*08/03/23 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2850**		25.5	2.01	mg/Kg	☼		07/25/23 11:12	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-50-S-2'-20230717

Lab Sample ID: 880-30948-21
Date Collected: 07/17/23 12:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000518	U	0.00269	0.000518	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1
Toluene	**0.000779**	**J**	0.00269	0.000613	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1
Ethylbenzene	<0.000760	U	0.00269	0.000760	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1
m-Xylene & p-Xylene	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1
o-Xylene	**0.000833**	**J**	0.00269	0.000463	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1
Xylenes, Total	<0.00136	U	0.00538	0.00136	mg/Kg	☼	07/27/23 13:35	07/28/23 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00161**	**J**	0.00538	0.00136	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**48.2**	**J**	67.3	20.2	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**20.2**	**J B**	67.3	20.2	mg/Kg	☼	07/31/23 08:29	08/02/23 21:54	1
Diesel Range Organics (Over C10-C28)	**28.0**	**J B**	67.3	20.2	mg/Kg	☼	07/31/23 08:29	08/02/23 21:54	1
Oil Range Organics (Over C28-C36)	<20.2	U	67.3	20.2	mg/Kg	☼	07/31/23 08:29	08/02/23 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/02/23 21:54*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/31/23 08:29*	*08/02/23 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**478**	**F1**	6.81	0.538	mg/Kg	☼		07/25/23 11:47	1

Client Sample ID: B-51-S-2'-20230717

Lab Sample ID: 880-30948-22
Date Collected: 07/17/23 12:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1
Toluene	**0.000573**	**J**	0.00207	0.000471	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1
Ethylbenzene	<0.000583	U	0.00207	0.000583	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1
o-Xylene	<0.000355	U	0.00207	0.000355	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:55*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:55*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-51-S-2'-20230717

Lab Sample ID: 880-30948-22
Date Collected: 07/17/23 12:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00413	0.00104	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**463**		51.0	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**17.1**	**J B**	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1
Diesel Range Organics (Over C10-C28)	**446**	**B**	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1
OII Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:28*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**322**		5.08	0.401	mg/Kg	☼		07/25/23 12:03	1

Client Sample ID: B-52-S-2'-20230717

Lab Sample ID: 880-30948-23
Date Collected: 07/17/23 12:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Toluene	**0.000710**	**J**	0.00204	0.000466	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
o-Xylene	**0.000498**	**J**	0.00204	0.000351	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:16*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00121**	**J**	0.00409	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**197**		51.3	15.4	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 01:49	1
Diesel Range Organics (Over C10-C28)	**197**	**B**	51.3	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 01:49	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-52-S-2'-20230717

Lab Sample ID: 880-30948-23
Date Collected: 07/17/23 12:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.4	U	51.3	15.4	mg/Kg	☼	07/31/23 08:29	08/03/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:49*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		5.06	0.400	mg/Kg	☼		07/25/23 12:08	1

Client Sample ID: B-53-S-2'-20230717

Lab Sample ID: 880-30948-24
Date Collected: 07/17/23 12:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1
Toluene	**0.000840**	**J**	0.00204	0.000466	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1
Ethylbenzene	**0.000577**	**J**	0.00204	0.000577	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:36*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00142**	**J**	0.00409	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**91.1**		51.2	15.4	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/02/23 22:59	1
Diesel Range Organics (Over C10-C28)	**91.1**	**B**	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/02/23 22:59	1
Oll Range Organics (Over C28-C36)	<15.4	U	51.2	15.4	mg/Kg	☼	07/31/23 08:29	08/02/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:59*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1020**		5.09	0.402	mg/Kg	☼		07/25/23 12:14	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-54-S-2'-20230717

Lab Sample ID: 880-30948-25
Date Collected: 07/17/23 13:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1
Toluene	<0.000473	U	0.00208	0.000473	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1
Ethylbenzene	<0.000586	U	0.00208	0.000586	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1
o-Xylene	<0.000357	U	0.00208	0.000357	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	☼	07/27/23 13:35	07/28/23 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:57*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/27/23 13:35*	*07/28/23 13:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00105	U	0.00415	0.00105	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**128**		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**46.1**	**J B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:03	1
Diesel Range Organics (Over C10-C28)	**82.1**	**B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:03	1
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*07/31/23 08:29*	*08/03/23 00:03*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/31/23 08:29*	*08/03/23 00:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		5.17	0.408	mg/Kg	☼		07/25/23 12:19	1

Client Sample ID: B-55-S-2'-20230717

Lab Sample ID: 880-30948-26
Date Collected: 07/17/23 13:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1
Toluene	**0.000742**	**J**	0.00202	0.000461	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:17*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:17*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-55-S-2'-20230717

Lab Sample ID: 880-30948-26
Date Collected: 07/17/23 13:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**175**		50.4	15.1	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**21.5**	**J B**	50.4	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 02:11	1
Diesel Range Organics (Over C10-C28)	**153**	**B**	50.4	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 02:11	1
OII Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:11*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/31/23 08:29*	*08/03/23 02:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1540**		25.4	2.01	mg/Kg	☼		07/26/23 09:42	5

Client Sample ID: B-56-S-2'-20230717

Lab Sample ID: 880-30948-27
Date Collected: 07/17/23 13:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1
Toluene	**0.000963**	**J**	0.00200	0.000456	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1
o-Xylene	**0.000426**	**J**	0.00200	0.000344	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	☼	07/27/23 13:35	07/28/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:38*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00139**	**J**	0.00400	0.00101	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**254**		50.5	15.1	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**44.3**	**J B**	50.5	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 01:07	1
Diesel Range Organics (Over C10-C28)	**210**	**B**	50.5	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 01:07	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-56-S-2'-20230717

Lab Sample ID: 880-30948-27
Date Collected: 07/17/23 13:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg	☼	07/31/23 08:29	08/03/23 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:07*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/31/23 08:29*	*08/03/23 01:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**698**		5.10	0.403	mg/Kg	☼		07/25/23 12:40	1

Client Sample ID: B-57-S-2'-20230717

Lab Sample ID: 880-30948-28
Date Collected: 07/17/23 13:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000488	U	0.00253	0.000488	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1
Toluene	**0.000698**	**J**	0.00253	0.000578	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1
Ethylbenzene	<0.000716	U	0.00253	0.000716	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1
m-Xylene & p-Xylene	<0.00128	U	0.00507	0.00128	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1
o-Xylene	<0.000436	U	0.00253	0.000436	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1
Xylenes, Total	<0.00128	U	0.00507	0.00128	mg/Kg	☼	07/27/23 13:35	07/28/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:58*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 14:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00128	U	0.00507	0.00128	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**69.5**		62.5	18.7	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**26.1**	**J B**	62.5	18.7	mg/Kg	☼	07/31/23 08:29	08/02/23 22:16	1
Diesel Range Organics (Over C10-C28)	**43.4**	**J B**	62.5	18.7	mg/Kg	☼	07/31/23 08:29	08/02/23 22:16	1
OII Range Organics (Over C28-C36)	<18.7	U	62.5	18.7	mg/Kg	☼	07/31/23 08:29	08/02/23 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:16*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**243**		6.27	0.495	mg/Kg	☼		07/25/23 12:46	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-58-S-2'-20230717

Lab Sample ID: 880-30948-29
Date Collected: 07/17/23 13:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 0.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0766	J	0.218	0.0419	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1
Toluene	0.0952	J	0.218	0.0496	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1
Ethylbenzene	<0.0615	U	0.218	0.0615	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1
m-Xylene & p-Xylene	<0.110	U	0.435	0.110	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1
o-Xylene	<0.0374	U	0.218	0.0374	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1
Xylenes, Total	<0.110	U	0.435	0.110	mg/Kg	☼	07/27/23 13:35	07/28/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/27/23 13:35*	*07/28/23 15:19*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/27/23 13:35*	*07/28/23 15:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.172	J	0.435	0.110	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14900		5460	1640	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1890	J B	5460	1640	mg/Kg	☼	07/31/23 08:29	08/03/23 03:36	1
Diesel Range Organics (Over C10-C28)	13000	B	5460	1640	mg/Kg	☼	07/31/23 08:29	08/03/23 03:36	1
OII Range Organics (Over C28-C36)	<1640	U	5460	1640	mg/Kg	☼	07/31/23 08:29	08/03/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/31/23 08:29*	*08/03/23 03:36*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/31/23 08:29*	*08/03/23 03:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58400		545	43.1	mg/Kg	☼		07/25/23 12:51	1

Client Sample ID: B-59-S-2'-20230717

Lab Sample ID: 880-30948-30
Date Collected: 07/17/23 13:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 13:35*	*07/28/23 15:39*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/27/23 13:35*	*07/28/23 15:39*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-59-S-2'-20230717

Lab Sample ID: 880-30948-30
Date Collected: 07/17/23 13:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**88.4**		50.9	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**20.1**	**J B**	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:20	1
Diesel Range Organics (Over C10-C28)	**68.3**	**B**	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:20	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/31/23 08:29*	*08/02/23 23:20*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/31/23 08:29*	*08/02/23 23:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**504**		5.12	0.404	mg/Kg	☼		07/25/23 12:56	1

Client Sample ID: B-60-S-2'-20230717

Lab Sample ID: 880-30948-31
Date Collected: 07/17/23 14:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1
Toluene	**0.000866**	**J**	0.00202	0.000461	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/27/23 13:35*	*07/28/23 17:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/27/23 13:35*	*07/28/23 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.5**		51.1	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**20.2**	**J B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:45	1
Diesel Range Organics (Over C10-C28)	**47.3**	**J B**	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:45	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-60-S-2'-20230717

Lab Sample ID: 880-30948-31
Date Collected: 07/17/23 14:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:29	08/03/23 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/31/23 08:29*	*08/03/23 00:45*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/31/23 08:29*	*08/03/23 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**764**	**F1**	5.09	0.402	mg/Kg	☼		07/25/23 13:02	1

Client Sample ID: B-61-S-2'-20230717

Lab Sample ID: 880-30948-32
Date Collected: 07/17/23 14:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000413**	**J**	0.00204	0.000392	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1
Toluene	**0.000796**	**J**	0.00204	0.000464	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1
Ethylbenzene	<0.000575	U	0.00204	0.000575	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1
o-Xylene	**0.000409**	**J**	0.00204	0.000350	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/27/23 13:35*	*07/28/23 17:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00162**	**J**	0.00407	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**110**		51.0	15.3	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**19.0**	**J B**	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:41	1
Diesel Range Organics (Over C10-C28)	**91.2**	**B**	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:41	1
Oll Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/31/23 08:29	08/02/23 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*07/31/23 08:29*	*08/02/23 23:41*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/31/23 08:29*	*08/02/23 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**636**		5.14	0.406	mg/Kg	☼		07/25/23 13:18	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-62-S-2'-20230717

Lab Sample ID: 880-30948-33
Date Collected: 07/17/23 14:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00201	0.000388	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Toluene	**0.00104**	**J**	0.00201	0.000459	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Ethylbenzene	<0.000569	U	0.00201	0.000569	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00104**	**J**	0.00403	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**150**		50.6	15.2	mg/Kg			08/03/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.3**	**J B**	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1
Diesel Range Organics (Over C10-C28)	**125**	**B**	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1
OII Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	07/31/23 08:29	08/02/23 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:37*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/31/23 08:29*	*08/02/23 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1840**		25.6	2.03	mg/Kg	☼		07/26/23 09:48	5

Client Sample ID: B-63-S-2'-20230717

Lab Sample ID: 880-30948-34
Date Collected: 07/17/23 14:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:32*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-63-S-2'-20230717

Lab Sample ID: 880-30948-34
Date Collected: 07/17/23 14:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**392**		50.8	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.8**	**J**	50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:54	1
Diesel Range Organics (Over C10-C28)	**322**		50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:54	1
Oil Range Organics (Over C28-C36)	**44.0**	**J**	50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:54*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		5.11	0.404	mg/Kg	☼		07/25/23 13:39	1

Client Sample ID: B-64-S-2'-20230717

Lab Sample ID: 880-30948-35
Date Collected: 07/17/23 14:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000395	U	0.00205	0.000395	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1
Toluene	**0.000722**	**J**	0.00205	0.000468	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1
Ethylbenzene	<0.000580	U	0.00205	0.000580	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1
m-Xylene & p-Xylene	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1
o-Xylene	<0.000353	U	0.00205	0.000353	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1
Xylenes, Total	<0.00104	U	0.00411	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/23 13:35*	*07/28/23 18:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00104	U	0.00411	0.00104	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**424**		51.3	15.4	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.5**	**J**	51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 03:15	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-64-S-2'-20230717

Lab Sample ID: 880-30948-35
Date Collected: 07/17/23 14:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**352**		51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 03:15	1
Oil Range Organics (Over C28-C36)	**46.3**	**J**	51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/31/23 08:35*	*08/03/23 03:15*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/31/23 08:35*	*08/03/23 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1940**		25.8	2.04	mg/Kg	☼		07/26/23 09:54	5

Client Sample ID: B-65-S-2'-20230717

Lab Sample ID: 880-30948-36
Date Collected: 07/17/23 14:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1
Toluene	**0.000895**	**J**	0.00204	0.000466	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:13*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00409	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**177**		51.0	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.0	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 00:03	1
Diesel Range Organics (Over C10-C28)	**177**		51.0	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 00:03	1
Oil Range Organics (Over C28-C36)	<15.3	U	51.0	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*07/31/23 08:35*	*08/03/23 00:03*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/31/23 08:35*	*08/03/23 00:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		5.06	0.399	mg/Kg	☼		07/25/23 13:50	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-66-S-2'-20230717

Lab Sample ID: 880-30948-37
Date Collected: 07/17/23 15:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000391	U	0.00203	0.000391	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1
Toluene	<0.000463	U	0.00203	0.000463	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1
Ethylbenzene	<0.000574	U	0.00203	0.000574	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1
m-Xylene & p-Xylene	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1
Xylenes, Total	<0.00103	U	0.00406	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:33*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00406	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**323**		51.1	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.2**	**J**	51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:36	1
Diesel Range Organics (Over C10-C28)	**253**		51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:36	1
Oil Range Organics (Over C28-C36)	**28.8**	**J**	51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*261*	*S1+*	*70 - 130*	*07/31/23 08:35*	*08/03/23 03:36*	*1*
o-Terphenyl	*266*	*S1+*	*70 - 130*	*07/31/23 08:35*	*08/03/23 03:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2350**		25.3	2.00	mg/Kg	☼		07/26/23 10:00	5

Client Sample ID: B-67-S-2'-20230717

Lab Sample ID: 880-30948-38
Date Collected: 07/17/23 15:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000985**	**J**	0.00206	0.000397	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1
Toluene	**0.00344**		0.00206	0.000470	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1
Ethylbenzene	**0.000890**	**J**	0.00206	0.000582	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1
o-Xylene	**0.000605**	**J**	0.00206	0.000354	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	☼	07/27/23 13:35	07/28/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/27/23 13:35*	*07/28/23 19:54*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-67-S-2'-20230717

Lab Sample ID: 880-30948-38
Date Collected: 07/17/23 15:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00592**		0.00412	0.00104	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**137**		51.1	15.3	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:58	1
Diesel Range Organics (Over C10-C28)	**137**		51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:58	1
OII Range Organics (Over C28-C36)	<15.3	U	51.1	15.3	mg/Kg	☼	07/31/23 08:35	08/03/23 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*07/31/23 08:35*	*08/03/23 03:58*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/31/23 08:35*	*08/03/23 03:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**786**		5.10	0.403	mg/Kg	☼		07/25/23 14:00	1

Client Sample ID: B-68-S-2'-20230717

Lab Sample ID: 880-30948-39
Date Collected: 07/17/23 15:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00105**	**J**	0.00202	0.000389	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1
Toluene	**0.00163**	**J**	0.00202	0.000461	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	☼	07/27/23 13:35	07/28/23 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/27/23 13:35*	*07/28/23 20:14*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/27/23 13:35*	*07/28/23 20:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00268**	**J**	0.00404	0.00102	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**444**		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**44.4**	**J**	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:32	1
Diesel Range Organics (Over C10-C28)	**359**		50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:32	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-68-S-2'-20230717

Lab Sample ID: 880-30948-39
Date Collected: 07/17/23 15:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	**40.5**	**J**	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/03/23 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:32*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**549**		5.05	0.399	mg/Kg	☼		07/25/23 14:06	1

Client Sample ID: B-69-S-2'-20230717

Lab Sample ID: 880-30948-40
Date Collected: 07/17/23 15:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00110**	**J**	0.00204	0.000393	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1
Toluene	**0.00104**	**J**	0.00204	0.000466	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1
o-Xylene	**0.000486**	**J**	0.00204	0.000351	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/27/23 13:35	07/28/23 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/27/23 13:35*	*07/28/23 20:34*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/27/23 13:35*	*07/28/23 20:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00263**	**J**	0.00408	0.00103	mg/Kg			07/31/23 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**109**		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**26.9**	**J F1 F2**	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 20:06	1
Diesel Range Organics (Over C10-C28)	**81.9**	**F1 F2**	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 20:06	1
Oll Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/31/23 08:35*	*08/02/23 20:06*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/31/23 08:35*	*08/02/23 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		5.13	0.405	mg/Kg	☼		07/25/23 14:11	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-70-S-2'-20230717

Lab Sample ID: 880-30948-41
Date Collected: 07/17/23 15:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000438	U	0.00228	0.000438	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1
Toluene	<0.000519	U	0.00228	0.000519	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1
Ethylbenzene	<0.000643	U	0.00228	0.000643	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1
m-Xylene & p-Xylene	<0.00115	U	0.00455	0.00115	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1
o-Xylene	<0.000391	U	0.00228	0.000391	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1
Xylenes, Total	<0.00115	U	0.00455	0.00115	mg/Kg	☼	07/28/23 09:41	07/28/23 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:23*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00115	U	0.00455	0.00115	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**189**		57.2	17.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**33.0**	**J**	57.2	17.2	mg/Kg	☼	07/31/23 08:35	08/02/23 22:59	1
Diesel Range Organics (Over C10-C28)	**156**		57.2	17.2	mg/Kg	☼	07/31/23 08:35	08/02/23 22:59	1
OII Range Organics (Over C28-C36)	<17.2	U	57.2	17.2	mg/Kg	☼	07/31/23 08:35	08/02/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/31/23 08:35*	*08/02/23 22:59*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/31/23 08:35*	*08/02/23 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**		28.4	2.25	mg/Kg	☼		07/22/23 06:40	5

Client Sample ID: B-71-S-2'-20230717

Lab Sample ID: 880-30948-42
Date Collected: 07/17/23 15:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000392	U	0.00203	0.000392	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1
Toluene	<0.000464	U	0.00203	0.000464	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1
Ethylbenzene	<0.000575	U	0.00203	0.000575	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1
m-Xylene & p-Xylene	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1
o-Xylene	<0.000350	U	0.00203	0.000350	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1
Xylenes, Total	<0.00103	U	0.00407	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:44*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/28/23 09:41*	*07/28/23 13:44*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-71-S-2'-20230717

Lab Sample ID: 880-30948-42
Date Collected: 07/17/23 15:50
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.9

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00407	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**187**		50.6	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:20	1
Diesel Range Organics (Over C10-C28)	**167**		50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:20	1
Oil Range Organics (Over C28-C36)	**20.3**	**J**	50.6	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*07/31/23 08:35*	*08/02/23 23:20*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/31/23 08:35*	*08/02/23 23:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		25.6	2.02	mg/Kg	☼		07/22/23 06:25	5

Client Sample ID: B-72-S-2'-20230717

Lab Sample ID: 880-30948-43
Date Collected: 07/17/23 16:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000393	U	0.00204	0.000393	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1
Toluene	<0.000466	U	0.00204	0.000466	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1
Ethylbenzene	<0.000577	U	0.00204	0.000577	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1
m-Xylene & p-Xylene	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1
o-Xylene	<0.000351	U	0.00204	0.000351	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1
Xylenes, Total	<0.00103	U	0.00408	0.00103	mg/Kg	☼	07/28/23 09:41	07/28/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/28/23 09:41*	*07/28/23 14:04*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/28/23 09:41*	*07/28/23 14:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00103	U	0.00408	0.00103	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**269**		50.8	15.2	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**43.1**	**J**	50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:41	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-72-S-2'-20230717

Lab Sample ID: 880-30948-43
Date Collected: 07/17/23 16:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	204		50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:41	1
Oil Range Organics (Over C28-C36)	21.9	J	50.8	15.2	mg/Kg	☼	07/31/23 08:35	08/02/23 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/31/23 08:35*	*08/02/23 23:41*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/31/23 08:35*	*08/02/23 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		25.8	2.04	mg/Kg	☼		07/22/23 06:30	5

Client Sample ID: B--73S-2'-20230717

Lab Sample ID: 880-30948-44
Date Collected: 07/17/23 16:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00202	0.000390	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1
Ethylbenzene	<0.000572	U	0.00202	0.000572	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1
m-Xylene & p-Xylene	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1
o-Xylene	<0.000348	U	0.00202	0.000348	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1
Xylenes, Total	<0.00102	U	0.00405	0.00102	mg/Kg	☼	07/28/23 09:41	07/28/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/28/23 09:41*	*07/28/23 14:25*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/28/23 09:41*	*07/28/23 14:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00405	0.00102	mg/Kg			07/31/23 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	387		51.3	15.4	mg/Kg			08/03/23 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.4	U	51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 02:11	1
Diesel Range Organics (Over C10-C28)	349		51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 02:11	1
Oil Range Organics (Over C28-C36)	37.8	J	51.3	15.4	mg/Kg	☼	07/31/23 08:35	08/03/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:11*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/31/23 08:35*	*08/03/23 02:11*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B--73S-2'-20230717
Date Collected: 07/17/23 16:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-44
Matrix: Solid
Percent Solids: 98.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		25.4	2.01	mg/Kg	☼		07/22/23 06:35	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30948-1	B-30-S-2'-20230717	147 S1+	93
880-30948-1 MS	B-30-S-2'-20230717	113	92
880-30948-1 MSD	B-30-S-2'-20230717	124	91
880-30948-2	B-31-S-2'-20230717	128	90
880-30948-3	B-32-S-2'-20230717	128	92
880-30948-4	B-33-S-2'-20230717	122	82
880-30948-5	B-34-S-2'-20230717	142 S1+	90
880-30948-6	B-35-S-2'-20230717	15 S1-	95
880-30948-7	B-36-S-2'-20230717	131 S1+	87
880-30948-8	B-37-S-2'-20230717	137 S1+	96
880-30948-9	B-38-S-2'-20230717	131 S1+	86
880-30948-10	B-39-S-2'-20230717	132 S1+	96
880-30948-11	B-40-S-2'-20230717	124	81
880-30948-12	B-41S-2'-20230717	148 S1+	93
880-30948-13	B-42-S-2'-20230717	124	91
880-30948-14	B-43-S-2'-20230717	146 S1+	93
880-30948-15	B-44-S-2'-20230717	123	88
880-30948-16	B-45-S-2'-20230717	131 S1+	87
880-30948-17	B-46-S-2'-20230717	143 S1+	98
880-30948-18	B-47-S-2'-20230717	133 S1+	96
880-30948-19	B-48-S-2'-20230717	141 S1+	96
880-30948-20	B-49-S-2'-20230717	139 S1+	100
880-30948-21	B-50-S-2'-20230717	82	97
880-30948-21 MS	B-50-S-2'-20230717	91	97
880-30948-21 MSD	B-50-S-2'-20230717	98	97
880-30948-22	B-51-S-2'-20230717	95	105
880-30948-23	B-52-S-2'-20230717	83	101
880-30948-24	B-53-S-2'-20230717	94	101
880-30948-25	B-54-S-2'-20230717	87	99
880-30948-26	B-55-S-2'-20230717	87	101
880-30948-27	B-56-S-2'-20230717	96	104
880-30948-28	B-57-S-2'-20230717	95	101
880-30948-29	B-58-S-2'-20230717	94	99
880-30948-30	B-59-S-2'-20230717	93	108
880-30948-31	B-60-S-2'-20230717	76	100
880-30948-32	B-61-S-2'-20230717	86	101
880-30948-33	B-62-S-2'-20230717	93	102
880-30948-34	B-63-S-2'-20230717	85	99
880-30948-35	B-64-S-2'-20230717	98	101
880-30948-36	B-65-S-2'-20230717	89	103
880-30948-37	B-66-S-2'-20230717	93	106
880-30948-38	B-67-S-2'-20230717	92	102
880-30948-39	B-68-S-2'-20230717	96	107
880-30948-40	B-69-S-2'-20230717	93	110
880-30948-41	B-70-S-2'-20230717	112	108
880-30948-42	B-71-S-2'-20230717	114	113
880-30948-43	B-72-S-2'-20230717	108	107
880-30948-44	B--73S-2'-20230717	108	104
LCS 880-58638/1-A	Lab Control Sample	128	92

Surrogate Summary

Client: ARCADIS US Inc
Job ID: 880-30948-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-58656/1-A	Lab Control Sample	100	96
LCS 880-58702/1-A	Lab Control Sample	119	98
LCSD 880-58638/2-A	Lab Control Sample Dup	111	98
LCSD 880-58656/2-A	Lab Control Sample Dup	99	97
LCSD 880-58702/2-A	Lab Control Sample Dup	120	98
MB 880-58538/5-A	Method Blank	74	93
MB 880-58638/5-A	Method Blank	69 S1-	80
MB 880-58656/5-A	Method Blank	91	123
MB 880-58702/5-A	Method Blank	98	90

Surrogate Legend

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

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-30948-1	B-30-S-2'-20230717	139 S1+	117
880-30948-2	B-31-S-2'-20230717	161 S1+	142 S1+
880-30948-3	B-32-S-2'-20230717	152 S1+	131 S1+
880-30948-4	B-33-S-2'-20230717	143 S1+	118
880-30948-5	B-34-S-2'-20230717	138 S1+	120
880-30948-6	B-35-S-2'-20230717	144 S1+	128
880-30948-7	B-36-S-2'-20230717	145 S1+	123
880-30948-8	B-37-S-2'-20230717	135 S1+	112
880-30948-9	B-38-S-2'-20230717	148 S1+	129
880-30948-10	B-39-S-2'-20230717	138 S1+	115
880-30948-11	B-40-S-2'-20230717	132 S1+	111
880-30948-12	B-41S-2'-20230717	79	82
880-30948-13	B-42-S-2'-20230717	77	76
880-30948-14	B-43-S-2'-20230717	158 S1+	131 S1+
880-30948-15	B-44-S-2'-20230717	144 S1+	114
880-30948-15 MS	B-44-S-2'-20230717	135 S1+	100
880-30948-15 MSD	B-44-S-2'-20230717	122	87
880-30948-16	B-45-S-2'-20230717	145 S1+	116
880-30948-17	B-46-S-2'-20230717	131 S1+	110
880-30948-18	B-47-S-2'-20230717	116	94
880-30948-19	B-48-S-2'-20230717	115	93
880-30948-20	B-49-S-2'-20230717	124	102
880-30948-21	B-50-S-2'-20230717	132 S1+	111
880-30948-22	B-51-S-2'-20230717	124	102
880-30948-23	B-52-S-2'-20230717	130	106
880-30948-24	B-53-S-2'-20230717	127	104
880-30948-25	B-54-S-2'-20230717	148 S1+	121
880-30948-26	B-55-S-2'-20230717	118	97
880-30948-27	B-56-S-2'-20230717	125	102
880-30948-28	B-57-S-2'-20230717	126	110
880-30948-29	B-58-S-2'-20230717	114	94

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-30948-30	B-59-S-2'-20230717	128	103								
880-30948-31	B-60-S-2'-20230717	128	103								
880-30948-32	B-61-S-2'-20230717	125	102								
880-30948-33	B-62-S-2'-20230717	114	90								
880-30948-34	B-63-S-2'-20230717	118	119								
880-30948-35	B-64-S-2'-20230717	110	109								
880-30948-36	B-65-S-2'-20230717	122	129								
880-30948-37	B-66-S-2'-20230717	261 S1+	266 S1+								
880-30948-38	B-67-S-2'-20230717	125	129								
880-30948-39	B-68-S-2'-20230717	117	119								
880-30948-40	B-69-S-2'-20230717	103	108								
880-30948-40 MS	B-69-S-2'-20230717	2035 S1+	2112 S1+								
880-30948-40 MSD	B-69-S-2'-20230717	1863 S1+	1881 S1+								
880-30948-41	B-70-S-2'-20230717	115	122								
880-30948-42	B-71-S-2'-20230717	123	132 S1+								
880-30948-43	B-72-S-2'-20230717	124	131 S1+								
880-30948-44	B--73S-2'-20230717	128	129								
LCS 880-58652/2-A	Lab Control Sample	105	105								
LCS 880-58767/2-A	Lab Control Sample	98	96								
LCS 880-58804/2-A	Lab Control Sample	87	88								
LCS 880-58806/2-A	Lab Control Sample	81	90								
LCSD 880-58652/3-A	Lab Control Sample Dup	111	102								
LCSD 880-58767/3-A	Lab Control Sample Dup	96	93								
LCSD 880-58804/3-A	Lab Control Sample Dup	92	92								
LCSD 880-58806/3-A	Lab Control Sample Dup	79	89								
MB 880-58652/1-A	Method Blank	166 S1+	158 S1+								
MB 880-58767/1-A	Method Blank	91	101								
MB 880-58804/1-A	Method Blank	197 S1+	166 S1+								
MB 880-58806/1-A	Method Blank	181 S1+	199 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58538/5-A
Matrix: Solid
Analysis Batch: 58621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/26/23 09:42	07/27/23 11:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/26/23 09:42	07/27/23 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*07/26/23 09:42*	*07/27/23 11:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/26/23 09:42*	*07/27/23 11:54*	*1*

Lab Sample ID: MB 880-58638/5-A
Matrix: Solid
Analysis Batch: 58621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0004358	J	0.00200	0.000385	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/27/23 09:19	07/28/23 01:12	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 09:19	07/28/23 01:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*07/27/23 09:19*	*07/28/23 01:12*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/27/23 09:19*	*07/28/23 01:12*	*1*

Lab Sample ID: LCS 880-58638/1-A
Matrix: Solid
Analysis Batch: 58621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		112	70 - 130
Toluene	0.100	0.1154		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1309	*+	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1181		mg/Kg		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-58638/2-A
Matrix: Solid
Analysis Batch: 58621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	3	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58638/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58621 — **Prep Batch: 58638**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1040		mg/Kg		104	70 - 130	10	35
Ethylbenzene			0.100	0.1231		mg/Kg		123	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2292		mg/Kg		115	70 - 130	4	35
o-Xylene			0.100	0.1137		mg/Kg		114	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-30948-1 MS — **Client Sample ID: B-30-S-2'-20230717**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58621 — **Prep Batch: 58638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000406	J B	0.101	0.07802		mg/Kg	☼	77	70 - 130
Toluene	<0.000462	U	0.101	0.08108		mg/Kg	☼	80	70 - 130
Ethylbenzene	<0.000572	U *+	0.101	0.08316		mg/Kg	☼	82	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1493		mg/Kg	☼	74	70 - 130
o-Xylene	<0.000349	U	0.101	0.07554		mg/Kg	☼	75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-30948-1 MSD — **Client Sample ID: B-30-S-2'-20230717**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58621 — **Prep Batch: 58638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000406	J B	0.101	0.08846		mg/Kg	☼	87	70 - 130	13	35
Toluene	<0.000462	U	0.101	0.09436		mg/Kg	☼	94	70 - 130	15	35
Ethylbenzene	<0.000572	U *+	0.101	0.09821		mg/Kg	☼	97	70 - 130	17	35
m-Xylene & p-Xylene	<0.00102	U	0.202	0.1781		mg/Kg	☼	88	70 - 130	18	35
o-Xylene	<0.000349	U	0.101	0.08676		mg/Kg	☼	86	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-58656/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58691 — **Prep Batch: 58656**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 13:35	07/28/23 12:06	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-58656/5-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/27/23 13:35	07/28/23 12:06	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/27/23 13:35	07/28/23 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:06*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*07/27/23 13:35*	*07/28/23 12:06*	*1*

Lab Sample ID: LCS 880-58656/1-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-58656/2-A
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	5	35
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2166		mg/Kg		108	70 - 130	1	35
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-30948-21 MS
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000518	U	0.135	0.1433		mg/Kg	☼	106	70 - 130
Toluene	0.000779	J	0.135	0.1354		mg/Kg	☼	100	70 - 130
Ethylbenzene	<0.000760	U	0.135	0.1252		mg/Kg	☼	93	70 - 130
m-Xylene & p-Xylene	<0.00136	U	0.270	0.2658		mg/Kg	☼	99	70 - 130
o-Xylene	0.000833	J	0.135	0.1272		mg/Kg	☼	94	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30948-21 MS
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58656

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-30948-21 MSD
Matrix: Solid
Analysis Batch: 58691

Client Sample ID: B-50-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000518	U	0.135	0.1504		mg/Kg	☼	111	70 - 130	5	35
Toluene	0.000779	J	0.135	0.1267		mg/Kg	☼	93	70 - 130	7	35
Ethylbenzene	<0.000760	U	0.135	0.1222		mg/Kg	☼	91	70 - 130	2	35
m-Xylene & p-Xylene	<0.00136	U	0.270	0.2694		mg/Kg	☼	100	70 - 130	1	35
o-Xylene	0.000833	J	0.135	0.1278		mg/Kg	☼	94	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-58702/5-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/28/23 09:41	07/28/23 11:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/28/23 09:41	07/28/23 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/28/23 09:41	07/28/23 11:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/23 09:41	07/28/23 11:38	1

Lab Sample ID: LCS 880-58702/1-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09809		mg/Kg		98	70 - 130
Toluene	0.100	0.1115		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58702/1-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58702

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-58702/2-A
Matrix: Solid
Analysis Batch: 58692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58702

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	6	35
Toluene			0.100	0.1167		mg/Kg		117	70 - 130	5	35
Ethylbenzene			0.100	0.1097		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2134		mg/Kg		107	70 - 130	1	35
o-Xylene			0.100	0.1067		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-58652/1-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/27/23 11:54	07/28/23 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130	07/27/23 11:54	07/28/23 19:43	1
o-Terphenyl	158	S1+	70 - 130	07/27/23 11:54	07/28/23 19:43	1

Lab Sample ID: LCS 880-58652/2-A
Matrix: Solid
Analysis Batch: 58684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58652

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	868.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58652/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58684 — **Prep Batch: 58652**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	929.0		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	999.8		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: MB 880-58767/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58798 — **Prep Batch: 58767**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/28/23 17:25	07/30/23 07:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/28/23 17:25*	*07/30/23 07:40*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/28/23 17:25*	*07/30/23 07:40*	*1*

Lab Sample ID: LCS 880-58767/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58798 — **Prep Batch: 58767**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	728.0		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)			1000	994.0		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-58767/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58798 — **Prep Batch: 58767**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	708.3		mg/Kg		71	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	920.6		mg/Kg		92	70 - 130	8	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-58767/3-A
Matrix: Solid
Analysis Batch: 58798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58767

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-58804/1-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.00	J	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1
Diesel Range Organics (Over C10-C28)	24.25	J	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:29	08/02/23 19:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	197	S1+	70 - 130	07/31/23 08:29	08/02/23 19:00	1
o-Terphenyl	166	S1+	70 - 130	07/31/23 08:29	08/02/23 19:00	1

Lab Sample ID: LCS 880-58804/2-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	888.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	861.3		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-58804/3-A
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.4		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	967.7		mg/Kg		97	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	92		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-30948-15 MS
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: B-44-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.9	J B	1010	1052		mg/Kg	☼	102	70 - 130
Diesel Range Organics (Over C10-C28)	60.9	B	1010	1294		mg/Kg	☼	122	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-30948-15 MSD
Matrix: Solid
Analysis Batch: 59067

Client Sample ID: B-44-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	25.9	J B	1010	895.2		mg/Kg	☼	86	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	60.9	B	1010	1142		mg/Kg	☼	107	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: MB 880-58806/1-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/31/23 08:34	08/02/23 19:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*181*	*S1+*	*70 - 130*	*07/31/23 08:34*	*08/02/23 19:00*	*1*
o-Terphenyl	*199*	*S1+*	*70 - 130*	*07/31/23 08:34*	*08/02/23 19:00*	*1*

Lab Sample ID: LCS 880-58806/2-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	896.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.4		mg/Kg		91	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-58806/2-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58806

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-58806/3-A
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.6		mg/Kg		83	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	880.7		mg/Kg		88	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-30948-40 MS
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: B-69-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	26.9	J F1 F2	1010	853.5		mg/Kg	☼	82	70 - 130
Diesel Range Organics (Over C10-C28)	81.9	F1 F2	1010	124.8	F1	mg/Kg	☼	4	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	2035	S1+	70 - 130
o-Terphenyl	2112	S1+	70 - 130

Lab Sample ID: 880-30948-40 MSD
Matrix: Solid
Analysis Batch: 59069

Client Sample ID: B-69-S-2'-20230717
Prep Type: Total/NA
Prep Batch: 58806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	26.9	J F1 F2	1010	467.6	F1 F2	mg/Kg	☼	44	70 - 130	58	20
Diesel Range Organics (Over C10-C28)	81.9	F1 F2	1010	94.11	F1 F2	mg/Kg	☼	1	70 - 130	28	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	1863	S1+	70 - 130
o-Terphenyl	1881	S1+	70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58053/1-A
Matrix: Solid
Analysis Batch: 58288

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/22/23 04:11	1

Lab Sample ID: LCS 880-58053/2-A
Matrix: Solid
Analysis Batch: 58288

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.8		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-58053/3-A
Matrix: Solid
Analysis Batch: 58288

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.2		mg/Kg		95	90 - 110	0	20

Lab Sample ID: MB 880-58051/1-A
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/25/23 11:01	1

Lab Sample ID: LCS 880-58051/2-A
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.8		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-58051/3-A
Matrix: Solid
Analysis Batch: 58466

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	230.6		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-30948-21 MS
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: B-50-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	478	F1	340	770.8	F1	mg/Kg	☼	86	90 - 110

Lab Sample ID: 880-30948-21 MSD
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: B-50-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	478	F1	340	793.2		mg/Kg	☼	93	90 - 110	3	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30948-31 MS
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: B-60-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	764	F1	254	925.9	F1	mg/Kg	☼	64	90 - 110

Lab Sample ID: 880-30948-31 MSD
Matrix: Solid
Analysis Batch: 58466

Client Sample ID: B-60-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	764	F1	254	931.1	F1	mg/Kg	☼	66	90 - 110	1	20

Lab Sample ID: MB 880-58050/1-A
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/25/23 08:43	1

Lab Sample ID: LCS 880-58050/2-A
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-58050/3-A
Matrix: Solid
Analysis Batch: 58467

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30948-1 MS
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: B-30-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1090		1270	2285		mg/Kg	☼	94	90 - 110

Lab Sample ID: 880-30948-1 MSD
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: B-30-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090		1270	2273		mg/Kg	☼	93	90 - 110	1	20

Lab Sample ID: 880-30948-11 MS
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: B-40-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1170		1260	2354		mg/Kg	☼	94	90 - 110

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-30948-11 MSD
Matrix: Solid
Analysis Batch: 58467

Client Sample ID: B-40-S-2'-20230717
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1170		1260	2358		mg/Kg	☼	94	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 58538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58538/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8021B	58638
MB 880-58538/5-A	Method Blank	Total/NA	Solid	8021B	58538
MB 880-58638/5-A	Method Blank	Total/NA	Solid	8021B	58638
LCS 880-58638/1-A	Lab Control Sample	Total/NA	Solid	8021B	58638
LCSD 880-58638/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58638
880-30948-1 MS	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638
880-30948-1 MSD	B-30-S-2'-20230717	Total/NA	Solid	8021B	58638

Prep Batch: 58638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	5030B	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	5030B	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 58638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58638/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58638/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58638/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30948-1 MS	B-30-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-1 MSD	B-30-S-2'-20230717	Total/NA	Solid	5030B	

Prep Batch: 58656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58656/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58656/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58656/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-30948-21 MS	B-50-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-21 MSD	B-50-S-2'-20230717	Total/NA	Solid	5030B	

Analysis Batch: 58691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8021B	58656

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8021B	58656
MB 880-58656/5-A	Method Blank	Total/NA	Solid	8021B	58656
LCS 880-58656/1-A	Lab Control Sample	Total/NA	Solid	8021B	58656
LCSD 880-58656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58656
880-30948-21 MS	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656
880-30948-21 MSD	B-50-S-2'-20230717	Total/NA	Solid	8021B	58656

Analysis Batch: 58692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8021B	58702
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8021B	58702
MB 880-58702/5-A	Method Blank	Total/NA	Solid	8021B	58702
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	8021B	58702
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58702

Prep Batch: 58702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	5030B	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	5030B	
MB 880-58702/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-58702/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-58702/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 58739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 58739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	Total BTEX	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015B NM	58652

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015B NM	58652
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015B NM	58652
MB 880-58652/1-A	Method Blank	Total/NA	Solid	8015B NM	58652
LCS 880-58652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58652
LCSD 880-58652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58652

Prep Batch: 58767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58767/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58767/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58767/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015B NM	58767
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015B NM	58767
MB 880-58767/1-A	Method Blank	Total/NA	Solid	8015B NM	58767
LCS 880-58767/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58767
LCSD 880-58767/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58767

Prep Batch: 58804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 58804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58804/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58804/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30948-15 MS	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-15 MSD	B-44-S-2'-20230717	Total/NA	Solid	8015NM Prep	

Prep Batch: 58806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015NM Prep	
MB 880-58806/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58806/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30948-40 MS	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	
880-30948-40 MSD	B-69-S-2'-20230717	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 58904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015 NM	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015 NM	

Analysis Batch: 59067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	8015B NM	58804
MB 880-58804/1-A	Method Blank	Total/NA	Solid	8015B NM	58804
LCS 880-58804/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58804
LCSD 880-58804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58804
880-30948-15 MS	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804
880-30948-15 MSD	B-44-S-2'-20230717	Total/NA	Solid	8015B NM	58804

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 59069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	8015B NM	58806
MB 880-58806/1-A	Method Blank	Total/NA	Solid	8015B NM	58806
LCS 880-58806/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58806
LCSD 880-58806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58806
880-30948-40 MS	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806
880-30948-40 MSD	B-69-S-2'-20230717	Total/NA	Solid	8015B NM	58806

HPLC/IC

Leach Batch: 58050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-2	B-31-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-3	B-32-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-4	B-33-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-5	B-34-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-6	B-35-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-7	B-36-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-8	B-37-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-9	B-38-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-10	B-39-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11	B-40-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-12	B-41S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-13	B-42-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-14	B-43-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-15	B-44-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-16	B-45-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-17	B-46-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-18	B-47-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-19	B-48-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-20	B-49-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30948-1 MS	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-1 MSD	B-30-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11 MS	B-40-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-11 MSD	B-40-S-2'-20230717	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 58051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-22	B-51-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-23	B-52-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-24	B-53-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-25	B-54-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-26	B-55-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-27	B-56-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-28	B-57-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-29	B-58-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-30	B-59-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31	B-60-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-32	B-61-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-33	B-62-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-34	B-63-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-35	B-64-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-36	B-65-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-37	B-66-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-38	B-67-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-39	B-68-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-40	B-69-S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58051/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58051/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58051/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30948-21 MS	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-21 MSD	B-50-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31 MS	B-60-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-31 MSD	B-60-S-2'-20230717	Soluble	Solid	DI Leach	

Leach Batch: 58053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-42	B-71-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-43	B-72-S-2'-20230717	Soluble	Solid	DI Leach	
880-30948-44	B--73S-2'-20230717	Soluble	Solid	DI Leach	
MB 880-58053/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58053/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58053/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 58288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-42	B-71-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-43	B-72-S-2'-20230717	Soluble	Solid	300.0	58053
880-30948-44	B--73S-2'-20230717	Soluble	Solid	300.0	58053
MB 880-58053/1-A	Method Blank	Soluble	Solid	300.0	58053
LCS 880-58053/2-A	Lab Control Sample	Soluble	Solid	300.0	58053
LCSD 880-58053/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58053

Analysis Batch: 58466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Soluble	Solid	300.0	58051

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-22	B-51-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-23	B-52-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-24	B-53-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-25	B-54-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-26	B-55-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-27	B-56-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-28	B-57-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-29	B-58-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-30	B-59-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31	B-60-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-32	B-61-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-33	B-62-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-34	B-63-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-35	B-64-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-36	B-65-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-37	B-66-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-38	B-67-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-39	B-68-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-40	B-69-S-2'-20230717	Soluble	Solid	300.0	58051
MB 880-58051/1-A	Method Blank	Soluble	Solid	300.0	58051
LCS 880-58051/2-A	Lab Control Sample	Soluble	Solid	300.0	58051
LCSD 880-58051/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58051
880-30948-21 MS	B-50-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-21 MSD	B-50-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31 MS	B-60-S-2'-20230717	Soluble	Solid	300.0	58051
880-30948-31 MSD	B-60-S-2'-20230717	Soluble	Solid	300.0	58051

Analysis Batch: 58467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-2	B-31-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-3	B-32-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-4	B-33-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-5	B-34-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-6	B-35-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-7	B-36-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-8	B-37-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-9	B-38-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-10	B-39-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11	B-40-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-12	B-41S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-13	B-42-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-14	B-43-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-15	B-44-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-16	B-45-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-17	B-46-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-18	B-47-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-19	B-48-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-20	B-49-S-2'-20230717	Soluble	Solid	300.0	58050
MB 880-58050/1-A	Method Blank	Soluble	Solid	300.0	58050
LCS 880-58050/2-A	Lab Control Sample	Soluble	Solid	300.0	58050

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 58467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-58050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58050
880-30948-1 MS	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-1 MSD	B-30-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11 MS	B-40-S-2'-20230717	Soluble	Solid	300.0	58050
880-30948-11 MSD	B-40-S-2'-20230717	Soluble	Solid	300.0	58050

General Chemistry

Analysis Batch: 58222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-1	B-30-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-2	B-31-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-3	B-32-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-4	B-33-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-5	B-34-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-6	B-35-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-7	B-36-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-8	B-37-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-9	B-38-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-10	B-39-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-11	B-40-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-12	B-41S-2'-20230717	Total/NA	Solid	D2216	
880-30948-13	B-42-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-14	B-43-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-15	B-44-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-16	B-45-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-17	B-46-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-18	B-47-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-19	B-48-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-20	B-49-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58222/1	Method Blank	Total/NA	Solid	D2216	
880-30948-1 DU	B-30-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-11 DU	B-40-S-2'-20230717	Total/NA	Solid	D2216	

Analysis Batch: 58223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-21	B-50-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-22	B-51-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-23	B-52-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-24	B-53-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-25	B-54-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-26	B-55-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-27	B-56-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-28	B-57-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-29	B-58-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-30	B-59-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-31	B-60-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-32	B-61-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-33	B-62-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-34	B-63-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-35	B-64-S-2'-20230717	Total/NA	Solid	D2216	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

General Chemistry (Continued)

Analysis Batch: 58223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-36	B-65-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-37	B-66-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-38	B-67-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-39	B-68-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-40	B-69-S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58223/1	Method Blank	Total/NA	Solid	D2216	
880-30948-22 DU	B-51-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-31 DU	B-60-S-2'-20230717	Total/NA	Solid	D2216	

Analysis Batch: 58227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30948-41	B-70-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-42	B-71-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-43	B-72-S-2'-20230717	Total/NA	Solid	D2216	
880-30948-44	B--73S-2'-20230717	Total/NA	Solid	D2216	
MB 880-58227/1	Method Blank	Total/NA	Solid	D2216	
880-30948-42 DU	B-71-S-2'-20230717	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-30-S-2'-20230717
Date Collected: 07/17/23 09:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-30-S-2'-20230717
Date Collected: 07/17/23 09:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-1
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 01:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 08:58	CH	EET MID

Client Sample ID: B-31-S-2'-20230717
Date Collected: 07/17/23 09:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-31-S-2'-20230717
Date Collected: 07/17/23 09:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-2
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 04:14	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:13	CH	EET MID

Client Sample ID: B-32-S-2'-20230717
Date Collected: 07/17/23 09:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Job ID: 880-30948-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

Client Sample ID: B-32-S-2'-20230717
Lab Sample ID: 880-30948-3
Date Collected: 07/17/23 09:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 04:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:18	CH	EET MID

Client Sample ID: B-33-S-2'-20230717
Lab Sample ID: 880-30948-4
Date Collected: 07/17/23 09:30
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-33-S-2'-20230717
Lab Sample ID: 880-30948-4
Date Collected: 07/17/23 09:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 02:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:29	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:23	CH	EET MID

Client Sample ID: B-34-S-2'-20230717
Lab Sample ID: 880-30948-5
Date Collected: 07/17/23 09:40
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-34-S-2'-20230717
Lab Sample ID: 880-30948-5
Date Collected: 07/17/23 09:40
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 03:23	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-34-S-2'-20230717
Date Collected: 07/17/23 09:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-5
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:11	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:28	CH	EET MID

Client Sample ID: B-35-S-2'-20230717
Date Collected: 07/17/23 09:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-35-S-2'-20230717
Date Collected: 07/17/23 09:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-6
Matrix: Solid
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 03:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 01:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:43	CH	EET MID

Client Sample ID: B-36-S-2'-20230717
Date Collected: 07/17/23 10:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-36-S-2'-20230717
Date Collected: 07/17/23 10:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-7
Matrix: Solid
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 04:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 03:53	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-36-S-2'-20230717
Lab Sample ID: 880-30948-7
Date Collected: 07/17/23 10:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:48	CH	EET MID

Client Sample ID: B-37-S-2'-20230717
Lab Sample ID: 880-30948-8
Date Collected: 07/17/23 10:10
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-37-S-2'-20230717
Lab Sample ID: 880-30948-8
Date Collected: 07/17/23 10:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 04:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 09:53	CH	EET MID

Client Sample ID: B-38-S-2'-20230717
Lab Sample ID: 880-30948-9
Date Collected: 07/17/23 10:20
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-38-S-2'-20230717
Lab Sample ID: 880-30948-9
Date Collected: 07/17/23 10:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 05:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 00:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 09:58	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-39-S-2'-20230717
Date Collected: 07/17/23 10:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-39-S-2'-20230717
Date Collected: 07/17/23 10:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-10
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 05:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 02:08	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:03	CH	EET MID

Client Sample ID: B-40-S-2'-20230717
Date Collected: 07/17/23 10:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:43	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-40-S-2'-20230717
Date Collected: 07/17/23 10:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-11
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 07:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58652	07/27/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58684	07/29/23 01:47	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:08	CH	EET MID

Client Sample ID: B-41S-2'-20230717
Date Collected: 07/17/23 10:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:38	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

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Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-41S-2'-20230717
Date Collected: 07/17/23 10:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-12
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 07:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58767	07/28/23 17:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58798	07/31/23 06:37	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:22	CH	EET MID

Client Sample ID: B-42-S-2'-20230717
Date Collected: 07/17/23 11:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	07/31/23 15:38	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-42-S-2'-20230717
Date Collected: 07/17/23 11:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-13
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 08:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58767	07/28/23 17:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58798	07/31/23 06:58	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:27	CH	EET MID

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:05	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-43-S-2'-20230717
Date Collected: 07/17/23 11:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-14
Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:11	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:42	CH	EET MID

Client Sample ID: B-44-S-2'-20230717
Date Collected: 07/17/23 11:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-44-S-2'-20230717
Date Collected: 07/17/23 11:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-15
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 20:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:47	CH	EET MID

Client Sample ID: B-45-S-2'-20230717
Date Collected: 07/17/23 11:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-45-S-2'-20230717
Date Collected: 07/17/23 11:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-16
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 09:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:58	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-45-S-2'-20230717
Date Collected: 07/17/23 11:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-16
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 10:52	CH	EET MID

Client Sample ID: B-46-S-2'-20230717
Date Collected: 07/17/23 11:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-46-S-2'-20230717
Date Collected: 07/17/23 11:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-17
Matrix: Solid
Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 10:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:33	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			58467	07/25/23 10:57	CH	EET MID

Client Sample ID: B-47-S-2'-20230717
Date Collected: 07/17/23 11:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-47-S-2'-20230717
Date Collected: 07/17/23 11:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-18
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 10:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:02	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-48-S-2'-20230717
Date Collected: 07/17/23 12:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-48-S-2'-20230717
Date Collected: 07/17/23 12:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-19
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 11:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:54	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:07	CH	EET MID

Client Sample ID: B-49-S-2'-20230717
Date Collected: 07/17/23 12:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/28/23 14:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58222	07/21/23 10:03	KS	EET MID

Client Sample ID: B-49-S-2'-20230717
Date Collected: 07/17/23 12:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-20
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58638	07/27/23 09:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58621	07/28/23 11:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:15	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58050	07/19/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			58467	07/25/23 11:12	CH	EET MID

Client Sample ID: B-50-S-2'-20230717
Date Collected: 07/17/23 12:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-50-S-2'-20230717
Date Collected: 07/17/23 12:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-21
Matrix: Solid
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 21:54	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 11:47	CH	EET MID

Client Sample ID: B-51-S-2'-20230717
Date Collected: 07/17/23 12:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-51-S-2'-20230717
Date Collected: 07/17/23 12:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-22
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 12:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:03	CH	EET MID

Client Sample ID: B-52-S-2'-20230717
Date Collected: 07/17/23 12:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-52-S-2'-20230717
Date Collected: 07/17/23 12:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-23
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:16	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-52-S-2'-20230717
Date Collected: 07/17/23 12:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-23
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:49	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:08	CH	EET MID

Client Sample ID: B-53-S-2'-20230717
Date Collected: 07/17/23 12:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-53-S-2'-20230717
Date Collected: 07/17/23 12:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-24
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:14	CH	EET MID

Client Sample ID: B-54-S-2'-20230717
Date Collected: 07/17/23 13:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-54-S-2'-20230717
Date Collected: 07/17/23 13:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-25
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 13:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 00:03	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-54-S-2'-20230717
Lab Sample ID: 880-30948-25
Date Collected: 07/17/23 13:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:19	CH	EET MID

Client Sample ID: B-55-S-2'-20230717
Lab Sample ID: 880-30948-26
Date Collected: 07/17/23 13:10
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-55-S-2'-20230717
Lab Sample ID: 880-30948-26
Date Collected: 07/17/23 13:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 02:11	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:42	CH	EET MID

Client Sample ID: B-56-S-2'-20230717
Lab Sample ID: 880-30948-27
Date Collected: 07/17/23 13:20
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-56-S-2'-20230717
Lab Sample ID: 880-30948-27
Date Collected: 07/17/23 13:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 01:07	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:40	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-57-S-2'-20230717
Date Collected: 07/17/23 13:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-57-S-2'-20230717
Date Collected: 07/17/23 13:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-28
Matrix: Solid
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 14:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:46	CH	EET MID

Client Sample ID: B-58-S-2'-20230717
Date Collected: 07/17/23 13:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-58-S-2'-20230717
Date Collected: 07/17/23 13:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-29
Matrix: Solid
Percent Solids: 0.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 15:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 03:36	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:51	CH	EET MID

Client Sample ID: B-59-S-2'-20230717
Date Collected: 07/17/23 13:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-59-S-2'-20230717
Date Collected: 07/17/23 13:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-30
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 15:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 23:20	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 12:56	CH	EET MID

Client Sample ID: B-60-S-2'-20230717
Date Collected: 07/17/23 14:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-60-S-2'-20230717
Date Collected: 07/17/23 14:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-31
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 17:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/03/23 00:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:02	CH	EET MID

Client Sample ID: B-61-S-2'-20230717
Date Collected: 07/17/23 14:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-61-S-2'-20230717
Date Collected: 07/17/23 14:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-32
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 17:51	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-61-S-2'-20230717
Lab Sample ID: 880-30948-32
Date Collected: 07/17/23 14:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 23:41	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:18	CH	EET MID

Client Sample ID: B-62-S-2'-20230717
Lab Sample ID: 880-30948-33
Date Collected: 07/17/23 14:20
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:46	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-62-S-2'-20230717
Lab Sample ID: 880-30948-33
Date Collected: 07/17/23 14:20
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58804	07/31/23 08:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59067	08/02/23 22:37	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:48	CH	EET MID

Client Sample ID: B-63-S-2'-20230717
Lab Sample ID: 880-30948-34
Date Collected: 07/17/23 14:30
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-63-S-2'-20230717
Lab Sample ID: 880-30948-34
Date Collected: 07/17/23 14:30
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:54	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-63-S-2'-20230717
Date Collected: 07/17/23 14:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-34
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:39	CH	EET MID

Client Sample ID: B-64-S-2'-20230717
Date Collected: 07/17/23 14:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-64-S-2'-20230717
Date Collected: 07/17/23 14:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-35
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 18:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:15	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 09:54	CH	EET MID

Client Sample ID: B-65-S-2'-20230717
Date Collected: 07/17/23 14:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-65-S-2'-20230717
Date Collected: 07/17/23 14:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-36
Matrix: Solid
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 00:03	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 13:50	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-66-S-2'-20230717
Date Collected: 07/17/23 15:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-66-S-2'-20230717
Date Collected: 07/17/23 15:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-37
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:36	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58466	07/26/23 10:00	CH	EET MID

Client Sample ID: B-67-S-2'-20230717
Date Collected: 07/17/23 15:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-67-S-2'-20230717
Date Collected: 07/17/23 15:10
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-38
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 19:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 03:58	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:00	CH	EET MID

Client Sample ID: B-68-S-2'-20230717
Date Collected: 07/17/23 15:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-68-S-2'-20230717
Date Collected: 07/17/23 15:20
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-39
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:32	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:06	CH	EET MID

Client Sample ID: B-69-S-2'-20230717
Date Collected: 07/17/23 15:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 10:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58223	07/21/23 10:08	KS	EET MID

Client Sample ID: B-69-S-2'-20230717
Date Collected: 07/17/23 15:30
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-40
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	58656	07/27/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58691	07/28/23 20:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 20:06	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58051	07/19/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58466	07/25/23 14:11	CH	EET MID

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:23	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Client Sample ID: B-70-S-2'-20230717
Date Collected: 07/17/23 15:40
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-41
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:40	CH	EET MID

Client Sample ID: B-71-S-2'-20230717
Date Collected: 07/17/23 15:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-71-S-2'-20230717
Date Collected: 07/17/23 15:50
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-42
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 13:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 23:20	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:25	CH	EET MID

Client Sample ID: B-72-S-2'-20230717
Date Collected: 07/17/23 16:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B-72-S-2'-20230717
Date Collected: 07/17/23 16:00
Date Received: 07/19/23 11:55

Lab Sample ID: 880-30948-43
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 14:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/02/23 23:41	AJ	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 880-30948-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County, NM

Client Sample ID: B-72-S-2'-20230717
Lab Sample ID: 880-30948-43
Date Collected: 07/17/23 16:00
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:30	CH	EET MID

Client Sample ID: B--73S-2'-20230717
Lab Sample ID: 880-30948-44
Date Collected: 07/17/23 16:10
Matrix: Solid
Date Received: 07/19/23 11:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			58739	07/31/23 09:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58904	08/03/23 10:53	AJ	EET MID
Total/NA	Analysis	D2216		1			58227	07/21/23 10:12	KS	EET MID

Client Sample ID: B--73S-2'-20230717
Lab Sample ID: 880-30948-44
Date Collected: 07/17/23 16:10
Matrix: Solid
Date Received: 07/19/23 11:55
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	58702	07/28/23 09:41	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58692	07/28/23 14:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58806	07/31/23 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59069	08/03/23 02:11	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58053	07/19/23 14:08	KS	EET MID
Soluble	Analysis	300.0		5			58288	07/22/23 06:35	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
D2216		Solid	Percent Solids
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy 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
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-30948-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30948-1	B-30-S-2'-20230717	Solid	07/17/23 09:00	07/19/23 11:55
880-30948-2	B-31-S-2'-20230717	Solid	07/17/23 09:10	07/19/23 11:55
880-30948-3	B-32-S-2'-20230717	Solid	07/17/23 09:20	07/19/23 11:55
880-30948-4	B-33-S-2'-20230717	Solid	07/17/23 09:30	07/19/23 11:55
880-30948-5	B-34-S-2'-20230717	Solid	07/17/23 09:40	07/19/23 11:55
880-30948-6	B-35-S-2'-20230717	Solid	07/17/23 09:50	07/19/23 11:55
880-30948-7	B-36-S-2'-20230717	Solid	07/17/23 10:00	07/19/23 11:55
880-30948-8	B-37-S-2'-20230717	Solid	07/17/23 10:10	07/19/23 11:55
880-30948-9	B-38-S-2'-20230717	Solid	07/17/23 10:20	07/19/23 11:55
880-30948-10	B-39-S-2'-20230717	Solid	07/17/23 10:30	07/19/23 11:55
880-30948-11	B-40-S-2'-20230717	Solid	07/17/23 10:40	07/19/23 11:55
880-30948-12	B-41S-2'-20230717	Solid	07/17/23 10:50	07/19/23 11:55
880-30948-13	B-42-S-2'-20230717	Solid	07/17/23 11:00	07/19/23 11:55
880-30948-14	B-43-S-2'-20230717	Solid	07/17/23 11:10	07/19/23 11:55
880-30948-15	B-44-S-2'-20230717	Solid	07/17/23 11:20	07/19/23 11:55
880-30948-16	B-45-S-2'-20230717	Solid	07/17/23 11:30	07/19/23 11:55
880-30948-17	B-46-S-2'-20230717	Solid	07/17/23 11:40	07/19/23 11:55
880-30948-18	B-47-S-2'-20230717	Solid	07/17/23 11:50	07/19/23 11:55
880-30948-19	B-48-S-2'-20230717	Solid	07/17/23 12:00	07/19/23 11:55
880-30948-20	B-49-S-2'-20230717	Solid	07/17/23 12:10	07/19/23 11:55
880-30948-21	B-50-S-2'-20230717	Solid	07/17/23 12:20	07/19/23 11:55
880-30948-22	B-51-S-2'-20230717	Solid	07/17/23 12:30	07/19/23 11:55
880-30948-23	B-52-S-2'-20230717	Solid	07/17/23 12:40	07/19/23 11:55
880-30948-24	B-53-S-2'-20230717	Solid	07/17/23 12:50	07/19/23 11:55
880-30948-25	B-54-S-2'-20230717	Solid	07/17/23 13:00	07/19/23 11:55
880-30948-26	B-55-S-2'-20230717	Solid	07/17/23 13:10	07/19/23 11:55
880-30948-27	B-56-S-2'-20230717	Solid	07/17/23 13:20	07/19/23 11:55
880-30948-28	B-57-S-2'-20230717	Solid	07/17/23 13:30	07/19/23 11:55
880-30948-29	B-58-S-2'-20230717	Solid	07/17/23 13:40	07/19/23 11:55
880-30948-30	B-59-S-2'-20230717	Solid	07/17/23 13:50	07/19/23 11:55
880-30948-31	B-60-S-2'-20230717	Solid	07/17/23 14:00	07/19/23 11:55
880-30948-32	B-61-S-2'-20230717	Solid	07/17/23 14:10	07/19/23 11:55
880-30948-33	B-62-S-2'-20230717	Solid	07/17/23 14:20	07/19/23 11:55
880-30948-34	B-63-S-2'-20230717	Solid	07/17/23 14:30	07/19/23 11:55
880-30948-35	B-64-S-2'-20230717	Solid	07/17/23 14:40	07/19/23 11:55
880-30948-36	B-65-S-2'-20230717	Solid	07/17/23 14:50	07/19/23 11:55
880-30948-37	B-66-S-2'-20230717	Solid	07/17/23 15:00	07/19/23 11:55
880-30948-38	B-67-S-2'-20230717	Solid	07/17/23 15:10	07/19/23 11:55
880-30948-39	B-68-S-2'-20230717	Solid	07/17/23 15:20	07/19/23 11:55
880-30948-40	B-69-S-2'-20230717	Solid	07/17/23 15:30	07/19/23 11:55
880-30948-41	B-70-S-2'-20230717	Solid	07/17/23 15:40	07/19/23 11:55
880-30948-42	B-71-S-2'-20230717	Solid	07/17/23 15:50	07/19/23 11:55
880-30948-43	B-72-S-2'-20230717	Solid	07/17/23 16:00	07/19/23 11:55
880-30948-44	B--73S-2'-20230717	Solid	07/17/23 16:10	07/19/23 11:55

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

Chain of Custody Record

880-30948 Chain of Custody

esting

8/3/2023

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tr	Page: Page 1 of 4
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	
Company: ARCADIS U S Inc.	PWSID			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-30-S-2'-20230717	7/17/23	900	C	Solid			X		
B-31-S-2'-20230717		910		Solid			X		
B-32-S-2'-20230717		920		Solid			X		
B-33-S-2'-20230717		930		Solid			X		
B-34-S-2'-20230717		940		Solid			X		
B-35-S-2'-20230717		950		Solid			X		
B-36-S-2'-20230717		1000		Solid			X		
B-37-S-2'-20230717		1010		Solid			X		
B-38-S-2'-20230717		1020		Solid			X		
B-39-S-2'-20230717		1030		Solid			X		
B-40-S-2'-20230717	"	1040	X	Solid			X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/18/23 856	Arcadis		7-18-23 8 56	
2		7-18-23 8:56			7/19/23 11:55	
3		Date/Time.	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 0.5 | 0.2 | 0.3

Ver 01/16/2019

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Received by OCD: 5/15/2024 3:02:47 PM

Released to Imaging: 6/3/2024 2:55:09 PM

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

Chain of Custody Record

eurofins | Environment Testing

30948

Client Information	Sampler: JB	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5081-624 11
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~11 of 32~~ 2 of 4
Company: ARCADIS U S Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested			
City: Midland	TAT Requested (days): Standard			
State Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis com	WO #			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, Nm	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M - Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y - Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-41-S-2'-20230717	7/17/23	1050	C	Solid			X		
B-42-S-2'-20230717		1100		Solid			X		
B-43-S-2'-20230717		1110		Solid			X		
B-44-S-2'-20230717		1120		Solid			X		
B-45-S-2'-20230717		1130		Solid			X		
B-46-S-2'-20230717		1140		Solid			X		
B-47-S-2'-20230717		1150		Solid			X		
B-48-S-2'-20230717		1200		Solid			X		
B-49-S-2'-20230717		1210		Solid			X		
B-50-S-2'-20230717		1220		Solid			X		
B-51-S-2'-20230717	X	1230	X	Solid			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	~~JB~~	7/18/23 856	Arcadis	[signature]	7-18-23 8:56	
2	BCox	7-18-23 856		[signature]	7/19/23 1155	
3						

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

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Received by OCD: 5/15/2024 3:02:47 PM
8/3/2023
Page 93 of 96
Released to Imaging: 6/3/2024 2:55:09 PM

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

Chain of Custody Record

eurofins | Environment Testing

30948

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Justin Nixon	Phone: 575-942-0292	Lab PM: Builes John		880-5081-624 12
Company: ARCADIS U S Inc.	PWSID:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 12 of 32~~ 3 of 4
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Job #:
City: Midland	TAT Requested (days): Standard			
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note
			Preservation Code				N		
B-52-S-2'-20230717	7/17/23	1240	C	Solid			X		
B-53-S-2'-20230717		1250		Solid			X		
B-54-S-2'-20230717		1300		Solid			X		
B-55-S-2'-20230717		1310		Solid			X		
B-56-S-2'-20230717		1320		Solid			X		
B-57-S-2'-20230717		1330		Solid			X		
B-58-S-2'-20230717		1340		Solid			X		
B-59-S-2'-20230717		1350		Solid			X		
B-60-S-2'-20230717		1400		Solid			X		
B-61-S-2'-20230717		1410		Solid			X		
B-62-S-2'-20230717	"	1420	"	Solid			X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		7/18/23 856	Arcadis		7-18-23 856	
		7-18-23 8:56			7/19/23	
					155	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

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

Chain of Custody Record

eurofins | Environment Testing

30948

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: Justin Nixon	Phone 575-942-0292	E-Mail: John Builes@et.eurofinsus.com	State of Origin: NM	880-5081-624 16
Company: ARCADIS U S Inc.	PWSID			Page: Page 40F 4
Address: 1004 North Big Spring Suite 300	Due Date Requested			Job #:
City: Midland	TAT Requested (days): Standard			
State Zip: TX 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin Nixon@arcadis.com	WO #:			
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-63-S-2'-20230717	7/17/23	1430	C	Solid			X		
B-64-S-2'-20230717		1440		Solid			X		
B-65-S-2'-20230717		1450		Solid			X		
B-66-S-2'-20230717		1500		Solid			X		
B-67-S-2'-20230717		1510		Solid			X		
B-68-S-2'-20230717	X	1520	X	Solid			X		
B-69-S-2'-20230717		1530		Solid			X		
B-70-S-2'-20230717		1540		Solid			X		
B-71-S-2'-20230717		1550		Solid			X		
B-72-S-2'-20230717		1600		Solid			X		
B-73-S-2'-20230717	P	1610	P	Solid			X		

Loc: 880
30948

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by	7/18/23 856	Arcadis	Received by	7-18-23 8:5	
Relinquished by	7-18-23 8:50		Received by		
Relinquished by			Received by	7/19/23 155	

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-30948-1
SDG Number: Eddy County, NM

Login Number: 30948
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/18/2023 8:53:43 AM

JOB DESCRIPTION

Chevron Old Indian Draw Unit 001
SDG NUMBER Eddy County NM

JOB NUMBER

880-32136-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/3/2024 2:53:09 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
8/18/2023 8:53:43 AM

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

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 880-32136-1
Project/Site: Chevron Old Indian Draw Unit 001 SDG: Eddy County NM

Qualifiers

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

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Job ID: 880-32136-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32136-1

Receipt
The sample was received on 8/16/2023 10:54 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-60364 and analytical batch 880-60348 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60348 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60348/33).

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: Surrogate recovery for the following sample was outside control limits: (CCV 880-60420/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60393 and analytical batch 880-60415 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: B-254-S-2'-20230815 (880-32136-1), (880-32136-A-1-C MS) and (880-32136-A-1-D MSD).

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Client Sample ID: B-254-S-2'-20230815

Date Collected: 08/15/23 11:30
Date Received: 08/16/23 10:54

Lab Sample ID: 880-32136-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
o-Xylene	**0.000525**	**J**	0.00202	0.000347	mg/Kg		08/16/23 13:22	08/17/23 08:18	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/16/23 13:22	08/17/23 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*08/16/23 13:22*	*08/17/23 08:18*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/16/23 13:22*	*08/17/23 08:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			08/17/23 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**135**		49.6	14.9	mg/Kg			08/18/23 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**37.0**	**J**	49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1
Diesel Range Organics (Over C10-C28)	**97.7**		49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1
OII Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/16/23 17:18	08/17/23 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/16/23 17:18*	*08/17/23 13:59*	*1*
o-Terphenyl	*98*		*70 - 130*	*08/16/23 17:18*	*08/17/23 13:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**667**	**F1**	5.00	0.395	mg/Kg			08/16/23 22:43	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-32136-1	B-254-S-2'-20230815	79	91										
LCS 880-60386/1-A	Lab Control Sample	105	85										
LCSD 880-60386/2-A	Lab Control Sample Dup	91	93										
MB 880-60364/5-A	Method Blank	100	134 S1+										
MB 880-60386/5-A	Method Blank	94	117										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-32136-1	B-254-S-2'-20230815	97	98										
LCS 880-60398/2-A	Lab Control Sample	89	91										
LCSD 880-60398/3-A	Lab Control Sample Dup	83	85										
MB 880-60398/1-A	Method Blank	105	114										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60364/5-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/16/23 09:58	08/16/23 14:42	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/16/23 09:58	08/16/23 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/16/23 09:58*	*08/16/23 14:42*	*1*
1,4-Difluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*08/16/23 09:58*	*08/16/23 14:42*	*1*

Lab Sample ID: MB 880-60386/5-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/16/23 13:22	08/17/23 02:55	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/16/23 13:22	08/17/23 02:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/16/23 13:22*	*08/17/23 02:55*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/16/23 13:22*	*08/17/23 02:55*	*1*

Lab Sample ID: LCS 880-60386/1-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08546		mg/Kg		85	70 - 130
Toluene	0.100	0.08596		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09135		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1799		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08588		mg/Kg		86	70 - 130

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

Lab Sample ID: LCSD 880-60386/2-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08361		mg/Kg		84	70 - 130	2	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-60386/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60348 — **Prep Batch: 60386**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene			0.100	0.08379		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1651		mg/Kg		83	70 - 130	9	35
o-Xylene			0.100	0.07664		mg/Kg		77	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-60398/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60420 — **Prep Batch: 60398**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/16/23 17:18	08/17/23 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/16/23 17:18*	*08/17/23 08:08*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/16/23 17:18*	*08/17/23 08:08*	*1*

Lab Sample ID: LCS 880-60398/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60420 — **Prep Batch: 60398**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	809.0		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)			1000	828.9		mg/Kg		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-60398/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60420 — **Prep Batch: 60398**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	827.6		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	812.6		mg/Kg		81	70 - 130	2	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-60398/3-A
Matrix: Solid
Analysis Batch: 60420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60398

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60393/1-A
Matrix: Solid
Analysis Batch: 60415

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/16/23 20:42	1

Lab Sample ID: LCS 880-60393/2-A
Matrix: Solid
Analysis Batch: 60415

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-60393/3-A
Matrix: Solid
Analysis Batch: 60415

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-32136-1 MS
Matrix: Solid
Analysis Batch: 60415

Client Sample ID: B-254-S-2'-20230815
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	667	F1	250	881.7	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 880-32136-1 MSD
Matrix: Solid
Analysis Batch: 60415

Client Sample ID: B-254-S-2'-20230815
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	667	F1	250	884.7	F1	mg/Kg		87	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8021B	60386
MB 880-60364/5-A	Method Blank	Total/NA	Solid	8021B	60364
MB 880-60386/5-A	Method Blank	Total/NA	Solid	8021B	60386
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	8021B	60386
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60386

Prep Batch: 60364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60364/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	5030B	
MB 880-60386/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60386/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60386/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 60450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015NM Prep	
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015B NM	60398
MB 880-60398/1-A	Method Blank	Total/NA	Solid	8015B NM	60398
LCS 880-60398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60398
LCSD 880-60398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60398

Analysis Batch: 60550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Soluble	Solid	DI Leach	
MB 880-60393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32136-1 MS	B-254-S-2'-20230815	Soluble	Solid	DI Leach	
880-32136-1 MSD	B-254-S-2'-20230815	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

HPLC/IC

Analysis Batch: 60415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32136-1	B-254-S-2'-20230815	Soluble	Solid	300.0	60393
MB 880-60393/1-A	Method Blank	Soluble	Solid	300.0	60393
LCS 880-60393/2-A	Lab Control Sample	Soluble	Solid	300.0	60393
LCSD 880-60393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60393
880-32136-1 MS	B-254-S-2'-20230815	Soluble	Solid	300.0	60393
880-32136-1 MSD	B-254-S-2'-20230815	Soluble	Solid	300.0	60393

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 880-32136-1
Project/Site: Chevron Old Indian Draw Unit 001
SDG: Eddy County NM

Client Sample ID: B-254-S-2'-20230815
Lab Sample ID: 880-32136-1

Date Collected: 08/15/23 11:30
Matrix: Solid
Date Received: 08/16/23 10:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	60386	08/16/23 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60348	08/17/23 08:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60450	08/17/23 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60550	08/18/23 09:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60398	08/16/23 17:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60420	08/17/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60393	08/16/23 16:20	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60415	08/16/23 22:43	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy 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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron Old Indian Draw Unit 001

Job ID: 880-32136-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32136-1	B-254-S-2'-20230815	Solid	08/15/23 11:30	08/16/23 10:54

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

Chain of Custody Record

eurofins | Environment Testing

32136

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-5081-624.31
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 31 of 32~~ 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: M - Hexane
City: Midland	TAT Requested (days): 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested			
Email: Justin.Nixon@arcadis.com	WO #:			drate
Project Name: Chevron Old Indian Draw Unit 001	Project #: 88001630			K - EDTA L - EDA Y - Trizma Z - other (specify)
Site: Eddy County, NM	SSOW#:			Other:

880-32136 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B, MOISTURE_2540G	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N		
B-254-S-2'-20230815	8/15/23	1130	C	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
1		8/15/23 1500			8-15-23 1520	
2		8-15-23 1520			8/16/23 1045	
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5/2.2

Ver: 01/16/2019

Page 393 of 406
Received by OCD: 5/15/2024 3:02:47 PM
8/18/2023
Page 17 of 18
Released to Imaging: 6/3/2024 2:55:09 PM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-32136-1
SDG Number: Eddy County NM

Login Number: 32136
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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

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

From: Wells, Shelly, EMNRD
To: Barnhill, Amy
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: [**EXTERNAL**] RE: [EXTERNAL] Samling Notice Variances
Date: Monday, April 15, 2024 11:03:05 AM

Be aware this external email contains an attachment and/or link.
Ensure the email and contents are expected. If there are concerns, please submit suspicious messages to the Cyber Intelligence Center using the Report Phishing button.

Good morning Amy,

For the incidents below you may submit your remediation closure reports at this time. Please note going forward that pursuant to 19.15.29.12(D)1(a) NMAC any closure samples submitted without the two business day notice is subject to rejection.

Kind regards,

Shelly

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

From: Barnhill, Amy <ABarnhill@chevron.com>
Sent: Sunday, April 14, 2024 4:59 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] Samling Notice Variances

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

Hello Nelson and Shelly,

Chevron has been working on some older spills and completed all the final sampling events before the 12-1-23 changes. Therefore, we were unable to add sampling notices to the website before we completed the final sampling event. I am asking for permission to submit these reports without the final sampling notifications. Please let me know how to proceed.

NKMW1105550129

NMLB1226438559
NJMW1334440905 – already submitted
NAB14339536440
NCLB0525655219
NCLB0425654437
NAB1802537084 – already submitted
NAB1727056966
NAB1803756772
NAPP2313723174

Thank you,
Amy Barnhill
Environmental Specialist 2
Tel +1 432 687 7108
Mobile +1 432 940 8524
ABarnhill@chevron.com

Mid-Continent Business Unit
Chevron North America Exploration and Production Company

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

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

QUESTIONS

Action 344774

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nKMW1105550129**
Incident Name	**NKMW1105550129 OLD INDIAN DRAW UNIT #001 @ 30-015-20918**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-015-20918] OLD INDIAN DRAW UNIT #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	OLD INDIAN DRAW UNIT #001
Date Release Discovered	02/17/2011
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Valve | Produced Water | Released: 70 BBL | Recovered: 60 BBL | Lost: 10 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.*

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/15/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	Yes
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	Between ½ and 1 (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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	58400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14900
GRO+DRO (EPA SW-846 Method 8015M)	1890
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/04/2023
On what date will (or did) the final sampling or liner inspection occur	08/04/2023
On what date will (or was) the remediation complete(d)	09/25/2023
What is the estimated surface area (in square feet) that will be reclaimed	136500
What is the estimated volume (in cubic yards) that will be reclaimed	136500
What is the estimated surface area (in square feet) that will be remediated	8232
What is the estimated volume (in cubic yards) that will be remediated	8232
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.	

District I
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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/15/2024
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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS (continued)

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	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**344838**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/04/2023**
What was the (estimated) number of samples that were to be gathered	**281**
What was the sampling surface area in square feet	**136500**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	136500
What was the total volume (cubic yards) remediated	8232
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	136500
What was the total volume (in cubic yards) reclaimed	8232
Summarize any additional remediation activities not included by answers (above)	"Analytical results associated with recent remediation activities conducted in 2023 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC screening standards for a site with depth the groundwater less than 50 feet bgs have been delineated both horizontally and vertically, and excavated from the impacted area based on the approved variance. "

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

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I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/15/2024

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QUESTIONS (continued)

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	Action Number: 344774
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	136500
What was the total volume of replacement material (in cubic yards) for this site	8232
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	09/20/2023
Summarize any additional reclamation activities not included by answers (above)	Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration closure limits had been removed laterally and excavated to the extent possible vertically down to the base rock layer, the lined excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. The excavated area within the affected pasture was topped with a topsoil similar to native surrounding pasture material and reseeded with a BLM-approved seed mixture on September 20, 2023.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	

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I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/15/2024

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QUESTIONS (continued)

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QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 344774

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/3/2024