Ike Tavarez
Project Manager

ConocoPhillips
RM&R
600 W. Illinois Ave,
Midland, Texas 79701
Work: 432.685.2573
Cell: 432.701.8630
Ike.Tavarez@conocophillips.com

October 4, 2022

New Mexico Oil Conservation Division, District II
811 S. First Ct
Artesia, NM 88210

Re: Admiral 2H Flowline
2022 Remediation Summary and Soil Closure Request Report
Incident # NAPP2125630520
Eddy County, New Mexico

Dear whom it concerns,

Please find enclosed for your filed, copies of the following:

- Admiral 2H Flowline – September 28, 2022 Remediation Summary and Soil Closure Request Report

The Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of ConocoPhillips (COP).

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853 or myself at 432.685.2573, should you have any questions.

Sincerely,

Ike Tavarez

Ike Tavarez

Encl. Admiral 2H Flowline, NAPP2125630520 2022 Remediation Summary and Soil Closure Request Report

ARCADIS

COG (ConocoPhillips)

2022 Remediation Summary and Soil Closure Request Report

Admiral 2H Flowline

Incident # NAPP2125630520

October 2022

2022 Remediation Summary and Soil Closure Request Report

Admiral 2H Flowline
Incident # NAPP2125630520

October 2022

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

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

Our Ref:
30133625

Justin Nixon
Task Manager

Scott Foord, PG
Certified Project Manager

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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 Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Admiral 2H Flowline (Site). Details of the release are summarized in the Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located approximately 15.61 miles south of Malaga in Unit E, Section 31, Township 26 South, Range 29 East, Eddy County, New Mexico. A Site Location Map is included as **Figure 1**.

2.1 Incident # NAPP2125630520

According to the Initial C-141 Form, on August 26, 2021, a split in the line was discovered in the transfer flex pipe at the Site. The leak resulted in the release of approximately 40 barrels (bbls) of produced water to ground surface on the lease road and ran into the pasture at the Site. The impacted areas measured approximately 205 feet by 175 feet and 141 feet by 15 feet. The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on August 27, 2021 and assigned Incident ID number NAPP2125630520. The Initial C-141 Form is included as **Appendix A** and the final C-141 is included in **Appendix B.**

3 Site Characterization and Variance Request

Soil assessment activities were performed at the Site during September 2021 by New Tech Global Environmental, LLC (NTGE) to determine the horizontal and lateral extent of the release area. The assessment activities associated analytical soil sample results and the initial proposed remediation/reclamation activities for the impacted areas are detailed in the 2021 Work Plan submitted previously by New Tech Global Environmental, LLC (NTGE) to the NMOCD (see **Appendix C**).

Arcadis began excavation activities at the Site in June 2022. Chloride concentrations in soil were determined during excavation activities to be above the applicable screening limit of 600 milligrams per kilogram (mg/Kg) for chloride at a depth of approximately 10 feet below ground surface (bgs) within the southern pasture area. **The elevated chloride concentrations were subsequently determined associated with a historical release at this location (2RP-4330).** This incident was previously closed by the NMOCD and BLM with conditions to excavate to 4 feet bgs and place a clay/bentonite liner above the deeper impacted soils.

In a virtual meeting held between the NMOCD, Arcadis, and COG (ConocoPhillips) on June 23rd, 2022, the NMOCD verbally approved a variance request to backfill the area excavated within the pasture to 10 feet bgs with clean material up to 4 feet bgs and install a synthetic 20 mill liner.

This Variance Request was approved via e-mail by Brad Billings on June 24, 2022, allowing ongoing remediation activities at the Site to continue based on the following information and conditions:

- All soils exceeding the chloride regulatory limit of 600 mg/Kg above 4 eet bgs will be excavated from the impacted area and properly disposed of at an NMOCD-approved disposal facility.

- COG (ConocoPhillips) requested approval of a variance to install a synthetic 20 mill liner atop soil at a depth of 4-foot bgs confining deeper impacted soil from a historical spill that was previously confined with a clay layer at 4 feet bgs.
- The excavated area will be backfilled with non-waste containing, earthen material with chloride concentrations less than 600 mg/Kg.
- After backfilling is completed, all areas disturbed by the remediation activities shall be reclaimed to match the original surface conditions and drainage.

4 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site at the most stringent regulatory limits due to it being located within a high karst area. Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to a Site with depth to ground water less than 50 feet bgs:

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

5 Remediation Activities Summary

5.1 Soil Removal

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

Soil remediation activities were performed by Arcadis and Standard Safety and Supply (Standard) from June 1 through June 30, 2022. Photo-ionization detector (PID) readings, chloride field screening with Hach test strip results, and analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the lateral and vertical extent of soil affected by the spill. Lateral and vertical delineation of the impacted soil requiring removal was based on samples collected from the perimeter and bottom of the release area. Based on these results, it was determined that the release covered an approximately 6,610 square foot area with intersecting utility easements determined to be a high-pressure gas line owned by Energy Transfer running east to west, multiple Solaris and OWL water lines running east to west, and a Solaris water line running north to south, extending to depths of approximately 3.5 to 6 feet bgs. Soil analytical results are discussed in **Sections 5.3, 5.4, and 5.5**.

Excavation activities were conducted to a maximum depth of approximately 7 feet bgs on the north side of the release area and 10 feet bgs within the southern pasture area (historical release area detailed in Section 3). The

southern pasture area was backfilled and lined at 4 feet bgs as approved in the Variance Request. The liner was installed on June 29th, 2022, at a depth of 4 feet bgs (see **Photographic Log**) within the southern pasture area (encompassing SW-12 through SW-29, B-27). Approximately 4,320 cubic yards of impacted soil were excavated from the spill area. The limits of the excavation are presented on **Figure 2**. Excavated soil was stockpiled on-site, adjacent to the release area on 20 mil plastic sheeting and covered with 20 mil plastic sheeting during remediation activities.

The stockpiled soil was disposed offsite at the R360 Red Bluff Landfill facility located at 5053 US Hwy 285, in Orla, Texas as Class 2 non-hazardous material. Standard transported a total of 216 truckloads of soil directly to the landfill on June 14 through June 28, 2022. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Photographic Log**.

5.2 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on June 6, 2022, through June 27, 2022 for laboratory analyses. Following excavation of the impacted area, eight additional confirmation soil samples were collected from the side walls and base of the excavation as needed to maintain an approximate 200 square foot sample spacing or less for both side walls and base of the excavated area.

The soil confirmation soil samples were collected in 4 oz jars provided by Eurofins Xenco Analytical Laboratory (Xenco) located in Midland, Texas, then placed on ice and shipped to Xenco to be analyzed for chloride by United States Environmental Protection Agency (USEPA) Method 300; total petroleum hydrocarbons (TPH) by Method 8015 M for gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO); and benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Methods 8015/8021. Analytical results are shown in **Table 1**, and sidewall confirmation sample locations are depicted on **Figure 2** and excavation base confirmation samples are depicted on **Figure 3**. Laboratory analytical reports are included in **Appendix D**.

5.3 Chloride

Multiple soil samples collected from the south pasture area (historical release area) were reported above the NMAC reclamation limit of 600 mg/Kg at a depth of greater than 4 feet bgs. As discussed in the previous sections, the area was subsequently lined with a synthetic 20 mill liner at a depth of 4 feet bgs. All other soil samples collected within the excavated areas were below the NMAC reclamation limit of 600 mg/Kg.

5.4 TPH

Total TPH concentrations were reported below the NMAC screening standard of 100 mg/Kg at all sample locations.

5.5 BTEX

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

6 Restoration, Reclamation, and Re-Vegetation Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits had been removed, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas were located on production pads, lease roads, and/or pipeline corridors. Excavated areas were topped with a topsoil similar to native the surrounding pasture material.

7 Summary

A Variance Request was approved verbally in a virtual meeting between the NMOCD, Arcadis, and COG (ConocoPhillips) on June 23rd, 2022, with conditions that a liner must be placed in any excavated areas associated with the historical release exceeding chloride concentrations of 600 mg/Kg at a depth of 4 feet bgs. Analytical results associated with recent remediation activities conducted in 2022 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.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD stipulations and the approved variance. 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, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples for areas with impact less than 4 feet bgs. In accordance with the approved Variance Request, a poly liner was installed atop impacted soil affected from the historical release above the NMOCD screening level of 600 mg/Kg for chloride in the area with impact determined below 4 feet bgs.

Based on laboratory analytical results and field activities conducted to date, Arcadis requests closure be granted to the Admiral 2H Flowline site for Incident ID number NAPP2125630520. The Final C-141 Form is included as **Appendix B.**

Tables

Table 1
2022 Summary of Soil Sample Analytical Results
Admiral 2H Flowline
COG (ConocoPhillips)

ARCADIS

					BTEX							TPH				Gen Chem
Location ID	Depth (Feet)	Soil Status	Date Collected	Sample Name	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
NMOCD Closure Criteria					10	- -	- -	- -	- -	- -	50	- -	- -	- -	100	600
B-01	2	In-Situ	6/6/2022	B-1-2-5-060622	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<0.00397	<49.9	<49.9	<49.9	<49.9	315
B-02	3	In-Situ	6/6/2022	B-2-3-5-060622	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	81.4
B-03	3	In-Situ	6/6/2022	B-3-3-5-060622	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	125
B-04	2	In-Situ	6/6/2022	B-4-2-5-060622	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	53.2
B-05	4	In-Situ	6/8/2022	B-5-4-060822	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	298
B-06	4	In-Situ	6/8/2022	B-6-4-060822	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<50	<50	<50	<50	197
B-07	4	In-Situ	6/8/2022	B-7-4-060822	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	43.6
B-08	4	In-Situ	6/8/2022	B-8-4-060822	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	71.3
B-09	4	In-Situ	6/8/2022	B-9-4-060822	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<0.004	<49.9	<49.9	<49.9	<49.9	145
B-10	4	In-Situ	6/8/2022	B-10-4-060822	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<0.00397	<50	<50	<50	<50	145
B-11	4	In-Situ	6/8/2022	B-11-4-060822	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	110
B-12	4	In-Situ	6/8/2022	B-12-4-060822	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	283
~~B-13~~	~~1~~	Removed	~~6/6/2022~~	~~B-13-1'-5-060622~~	~~<0.002~~	~~<0.002~~	~~<0.002~~	~~<0.004~~	~~<0.002~~	~~<0.004~~	~~<0.004~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	**833**
B-13	2	In-Situ	6/9/2022	B-13-2'-060922	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	286
B-14	1	In-Situ	6/6/2022	B-14-1'-5-060622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	194
B-15	5	In-Situ	6/9/2022	B-15-5'-060922	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	240
B-16	5	In-Situ	6/9/2022	B-16-5'-060922	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	245
B-17	5	In-Situ	6/9/2022	B-17-5'-060922	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	221
B-18	3.5	In-Situ	6/10/2022	B-18-3.5'-061022	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	323
B-19	3.5	In-Situ	6/10/2022	B-19-3.5'-061022	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	289
B-20	3	In-Situ	6/10/2022	B-20-3'-061022	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	108
B-21	3	In-Situ	6/10/2022	B-21-3'-061022	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	127
B-22	3	In-Situ	6/10/2022	B-22-3'-061022 (a)	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	146
B-23	3	In-Situ	6/10/2022	B-23-3'-061022 (b)	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	64.3
B-24	7	In-Situ	6/14/2022	B-24-7'-061422	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	461
B-25	6	In-Situ	6/14/2022	B-25-6'-061422	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	341
B-26	4.5	In-Situ	6/14/2022	B-26-4.5'-061422	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	63.7
B-27	2	In-Situ	6/24/2022	B-27-2'-062422	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	257
BG-1	10	In-Situ	6/16/2022	BG-1-10'-061622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	144
BG-2	10	In-Situ	6/16/2022	BG-2-10'-061622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	304
SW-01	1	In-Situ	6/6/2022	SW-1-1-5-060622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	435
SW-02	1.5	In-Situ	6/6/2022	SW-2-1.5-5-060622	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<50	<50	<50	<50	128
SW-03	1.5	In-Situ	6/6/2022	SW-3-1.5-5-060622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	17.7
SW-04	2.5	In-Situ	6/9/2022	SW-4-2.5'-060922	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	530
SW-05	2.5	In-Situ	6/9/2022	SW-5-2.5'-060922	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<50	<50	<50	<50	483
SW-06	1.5	In-Situ	6/10/2022	SW-6-1.5'-061022	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	185
SW-07	1.5	In-Situ	6/10/2022	SW-7-1.5'-061022	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	186
SW-08	1.5	In-Situ	6/10/2022	SW-8-1.5'-061022	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	252
SW-09	1.5	In-Situ	6/10/2022	SW-9-1.5'-061022	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	180
~~SW-10~~	~~3~~	Removed	~~6/14/2022~~	~~SW-10-3'-061422~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50~~	~~<50~~	~~<50~~	~~<50~~	**653**
SW-10	3.5	In-Situ	6/16/2022	SW-10-3.5'-061622	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	136	<49.9	136	70.3
SW-11	3	In-Situ	6/16/2022	SW-11-3'-061622	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<50	<50	<50	<50	89
SW-12	1.5	In-Situ	6/16/2022	SW-12-1.5'-061622	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	114
SW-12	6	In-Situ	6/21/2022	SW-12-6'-062122	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	127
SW-13	6	In-Situ	6/21/2022	SW-13-6'-062122	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	219
SW-14	6	In-Situ	6/21/2022	SW-14-6'-061422	<0.002	<0.002	<0.002	<0.00399	<0.002	<.00399	<.00399	<49.9	<49.9	<49.9	<49.9	202
SW-15	2.5	In-Situ	6/14/2022	SW-15-2.5'-061422	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	345
~~SW-16~~	~~2.5~~	Removed	~~6/14/2022~~	~~SW-16-2.5'-061422~~	~~<0.002~~	~~<0.002~~	~~<0.002~~	~~<0.00399~~	~~<0.002~~	~~<0.00399~~	~~<0.00399~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	**931**
SW-16	5	In-Situ	6/17/2022	SW-16-5'-061722	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	51.5
SW-17	6	In-Situ	6/22/2022	SW-17-6'-062222	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50	<50	<50	<50	42.3
SW-18	6	In-Situ	6/22/2022	SW-18-6'-062222	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50	<50	<50	<50	86.0
SW-19	5	In-Situ	6/17/2022	SW-19-5'-061722	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	280
SW-20	5	In-Situ	6/17/2022	SW-20-5'-061722	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<0.004	<49.9	<49.9	<49.9	<49.9	6.42
SW-21	5	In-Situ	6/17/2022	SW-21-5'-061722	<0.002	<0.002	<0.002	<0.00401	<0.002	<0.00401	<0.00401	<50	<50	<50	<50	314
SW-22	5	In-Situ	6/17/2022	SW-22-5'-061722	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50	<50	<50	<50	186
SW-23	5	In-Situ	6/17/2022	SW-23-5'-061722 (a)	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	283
SW-24	5	In-Situ	6/17/2022	SW-24-5'-061722	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	84.9	<49.8	<49.8	84.9	47.5

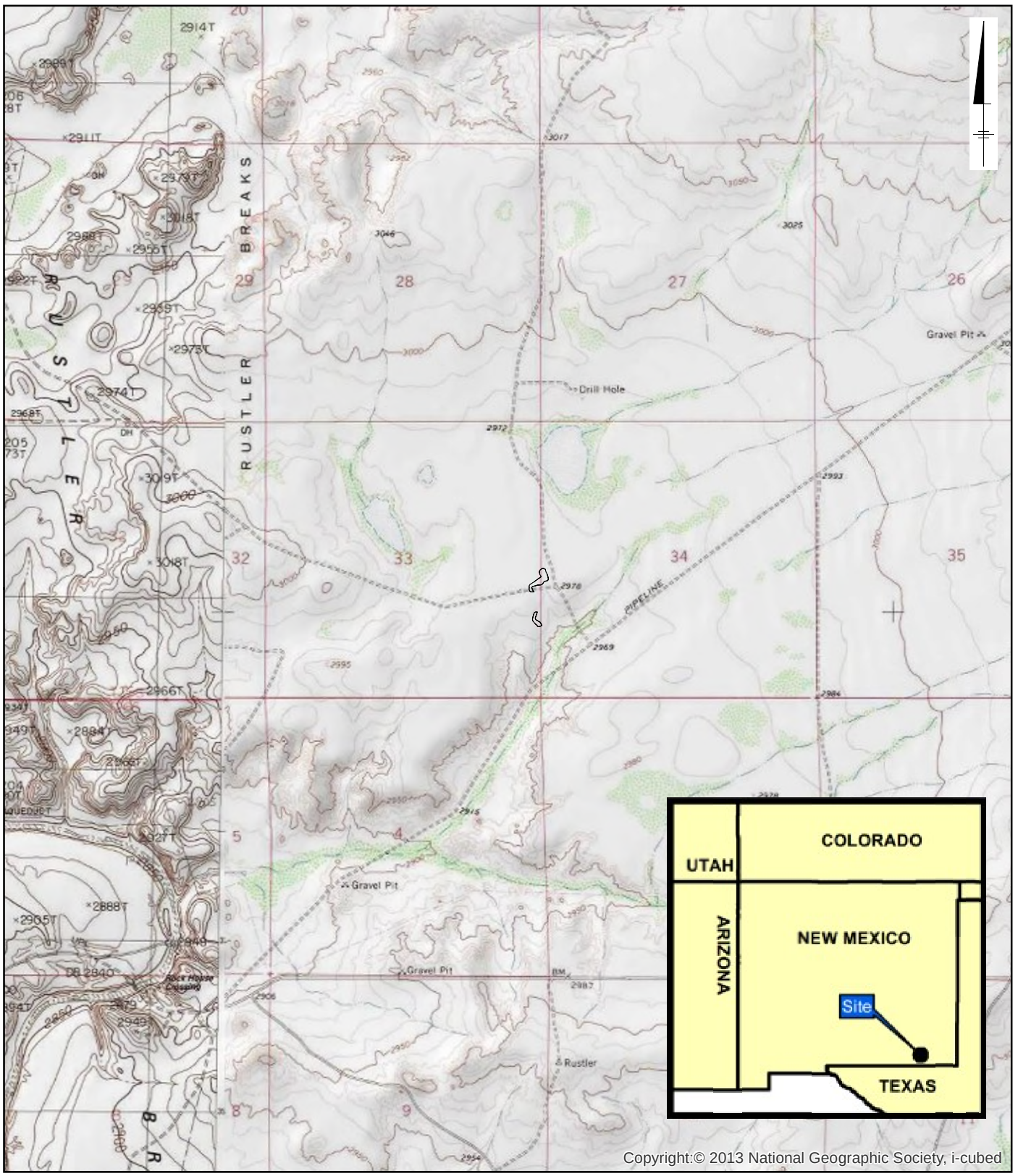
Table 1
2022 Summary of Soil Sample Analytical Results
Admiral 2H Flowline
COG (ConocoPhillips)

					BTEX							TPH				Gen Chem
Location ID	Depth (Feet)	Soil Status	Date Collected	Sample Name	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
NMOCD Closure Criteria					10	- -	- -	- -	- -	- -	50	- -	- -	- -	100	600
SW-25	5	In-Situ	6/17/2022	SW-25-5'-061722 (b)	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	77.9	<50	<50	77.9	189
SW-26	6	In-Situ	6/22/2022	SW-26-6'-062222	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	323
SW-27	6	In-Situ	6/21/2022	SW-27-6'-062122	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	272
SW-28	6	In-Situ	6/22/2022	SW-28-6'-062222	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	53.6
SW-29	6	In-Situ	6/22/2022	SW-29-6'-062222	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	221
SW-30	1	In-Situ	6/24/2022	SW-30-1'-062422	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	271
SW-31	1	In-Situ	6/24/2022	SW-31-1'-062422	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50	<50	<50	<50	362
SW-32	1	In-Situ	6/24/2022	SW-32-1'-062422	<0.002	<0.002	<0.002	<0.00399	<0.002	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	165

Legend:
Detections reported are indicated in **bold**
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1: MS and/or MSD recovery exceeds control limits
H: Sample was prepared or analyzed beyond the specified holding time
Analytes exceeding NMAC Standards are indicated in yellow
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
mg/kg: Milligram per Kilogram
BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
NMAC : New Mexico Administration Code
TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
TPH ORO: Total Petroluem Hydrocarbons Oil Range Organics
" ' " : Indicates one foot
" : Indicated inches
bgs: below ground surface
SS : Soil sample
BG : background sample
Sample locations with strikethroughs were excavated and additional confirmation samples were collected within that 200 sq ft area.
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)

Figures

DRAFT



Legend

Site Boundary

NOTES:

1. Datum: D_WGS_1984
2. Source: United States Geological Survey 7.5 Minute Quadrangle Map
3. Site Location: 32.084995, -103.980406

0 2,000 4,000 Feet

GRAPHIC SCALE

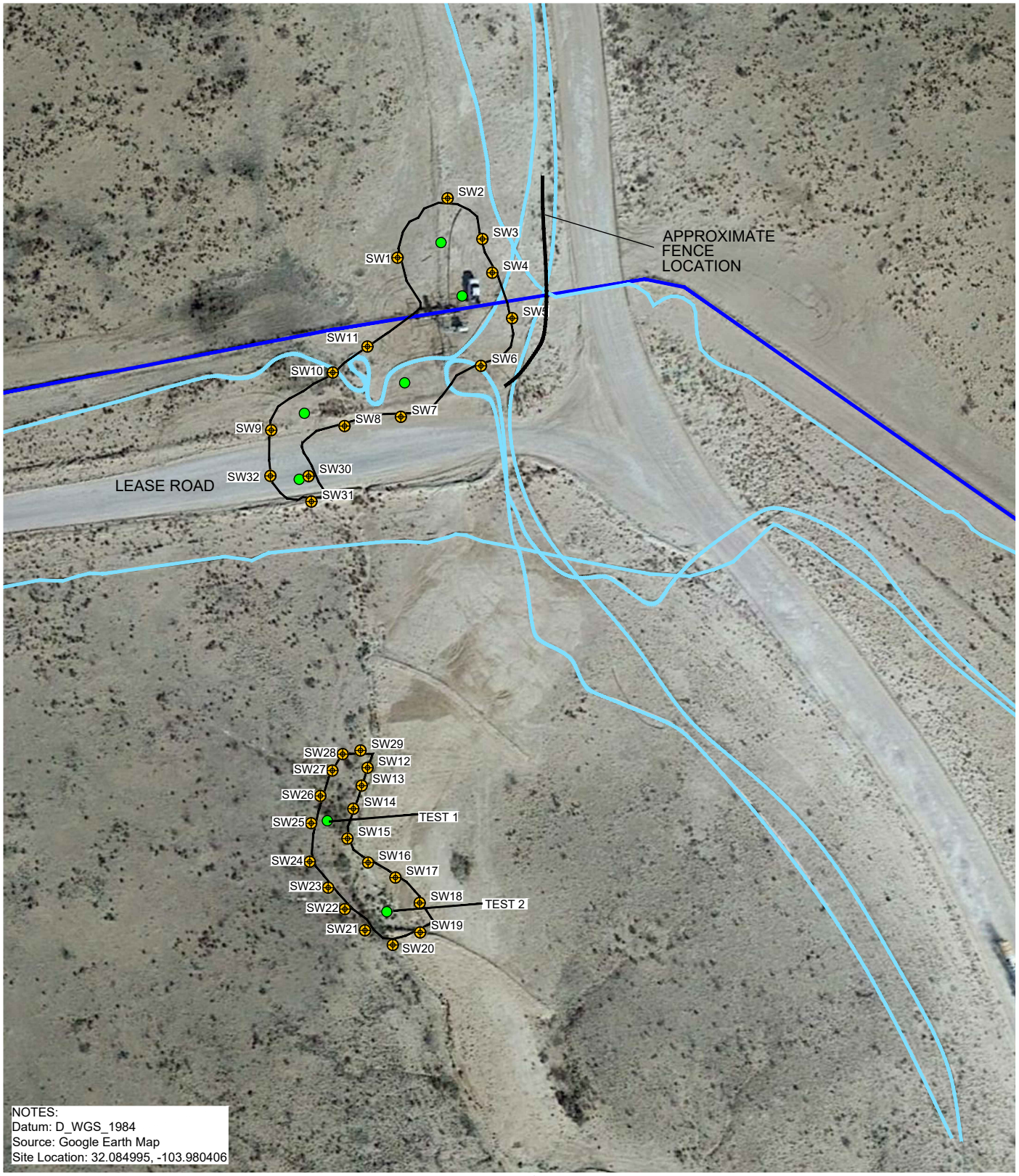
CONOCOPHILLIPS
ADMIRAL 2H FLOWLINE
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Div/Group: Created By: Last Saved By: WDBerndg
Project (Project #)
C:\BIM\OneDrive - ARCADIS\GIS\Admiral 2H\mxd\FIG1 ADMIRAL 2H SLM.mxd 7/26/2022 6:26:26 PM



LEGEND

- BURIED HIGH PRESSURE WATER LINE
- SURFACE POLYLINE
- SITE BOUNDARY
- SAMPLE POINT/TRENCH
- SIDEWALL SAMPLE LOCATION

0 100' 200'

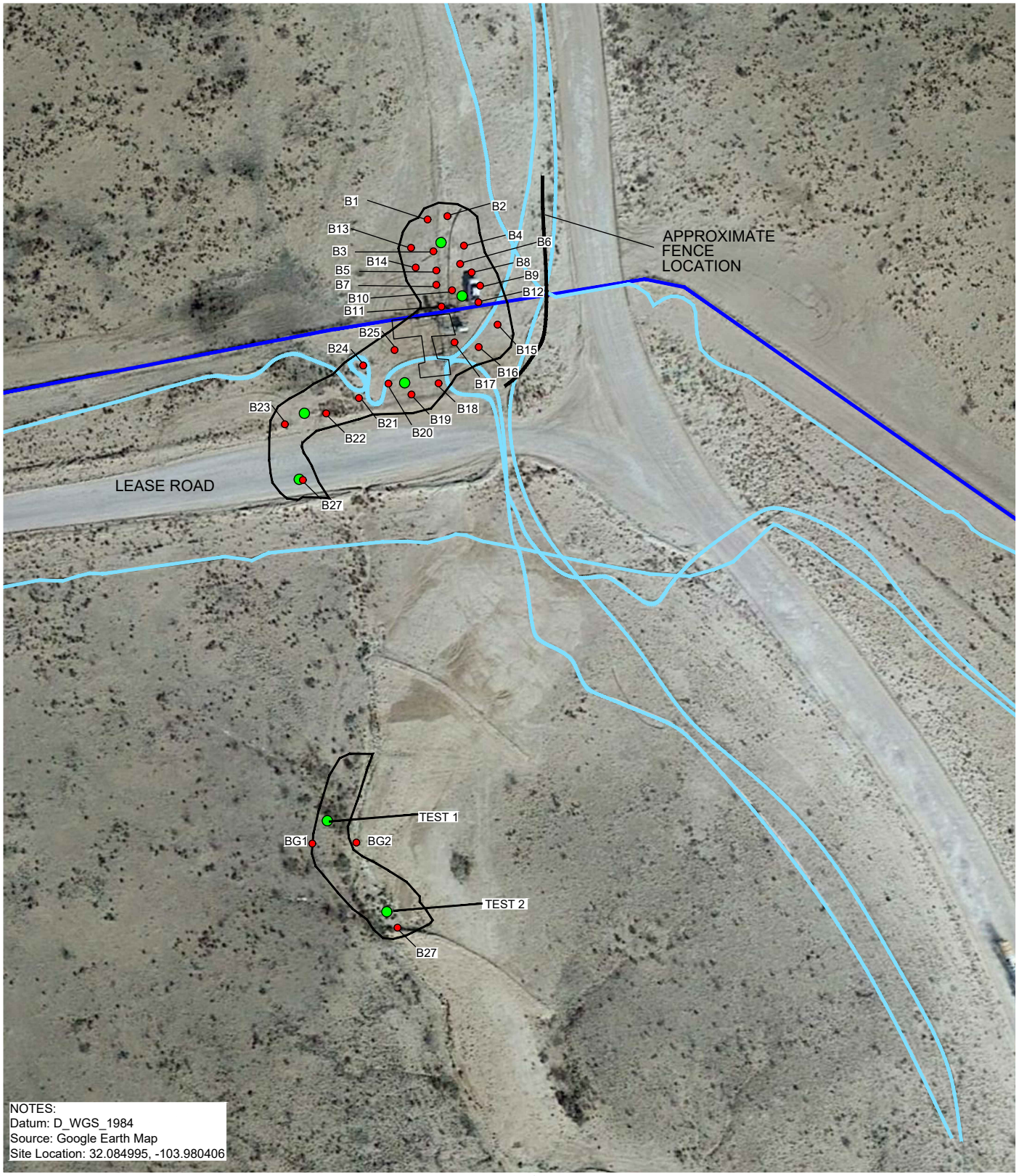
Approximate Scale: 1 in. = 100 ft.

CONOCOPHILLIPS
ADMIRAL 2H FLOWLINE
EDDY COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 2



LEGEND

- BURIED HIGH PRESSURE WATER LINE
- SURFACE POLYLINE
- SITE BOUNDARY
- SAMPLE POINT/TRENCH
- BASE SAMPLE LOCATION

0 100' 200'

Approximate Scale: 1 in. = 100 ft.

CONOCOPHILLIPS
ADMIRAL 2H FLOWLINE
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

Photographic Log

2022 Soil Remediation Photographic Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
1	06/22/2022

Direction Photo Taken:

Facing NW

Description:

NW of release area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
2	06/22/2022

Direction Photo Taken:

Facing NW

Description:

SW of release area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
3	06/22/22

Direction Photo Taken:

Facing West

Description:

North of the lease road. SW of release

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
4	6/24/2022

Direction Photo Taken:

Facing E

Description:

Lease road excavated area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
5	06/29/2022

Direction Photo Taken:

Facing South

Description:

View of lined excavation area at 4' south of the lease road

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
6	06/30/2022

Direction Photo Taken:

Facing South

Description:

View of North excavation area backfilled.

ARCADIS

PHOTOGRAPHIC LOG

Property Name:/	Location:	Case No.
Admiral 2H Flowline	Loving County, NM	nAPP2125630520

Photo No.	Date:
7	06/30/2022

Direction Photo Taken:

Facing South

Description:

Backfilled excavation south of the release

Appendix A

Initial C-141 Form Incident #NAPP2127034861

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2125630520
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.085071 Longitude -103.980267
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Admiral 002H	Site Type	Flowline
Date Release Discovered	August 26, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
L	34	25S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 40	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a split in the line.
The release was on the a lease road and ran into the pasture. No fluids were recovered.
Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice was given by Jacqui Harris via e-mail August 27,2021 at 2:30 am to mailto: blm_nm_cfo_spill@blm.gov and mailto:OCD.enviro@state.nm.us

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 9/10/2021

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 9/13/2021

NAPP2125630520

L48 Spill Volume Estimate Form

Facility Name & Number:	Admiral 2H
Asset Area:	DBWN
Release Discovery Date & Time:	8/26/2021
Release Type:	Produced Water
Provide any known details about the event:	Line driven over and split line. Release on Lease Road and Pasture

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	106.0	82.0	2.50	10.00%	322.328	32.233
Rectangle B	20.0	10.0	1.50	8.00%	4.450	0.356
Rectangle C	70.0	10.0	1.50	10.00%	15.575	1.558
Rectangle D	100.0	10.0	1.75	10.00%	25.958	2.596
Rectangle E	60.0	70.0	0.50	10.00%	31.150	3.115
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	39.857

Appendix B

Final C-141 Form Incident #NAPP2127034861

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2125630520
District RP	N/A
Facility ID	N/A
Application ID	76920

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	98.13 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	N/A
Facility ID	N/A
Application ID	76920

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

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

Printed Name: ____Ike Tavarez Title: _____Project Manager RM&R_____

Signature:_ Ike Tavarez Date: __08/5/2022_____

email: ___ike.tavarez@conocophillips.com_____ Telephone: ___432-701-8630_____

OCD Only

Received by: Jocelyn Harimon Date: 10/11/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	N/A
Facility ID	N/A
Application ID	76920

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Ike Tavarez Title: Project Manager

Signature: Ike Tavarez Date: 08/5/2022

email: ike.tavarez@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: Jocelyn Harimon Date: 10/11/2022

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

Closure Approved by: Jennifer Nobui Date: 10/28/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix C

Work Plan

Site Information

Work Plan
Admiral 2H Flowline (08.26.21)
Eddy County, New Mexico
Unit L Sec 34 T25S R29E
Incident #: NAPP2125630520
32.084995°, -103.980406°

Produced Water Release
Source: Rupture in Flowline
Release Date: 8/26/2021
Volume Released: 40 bbls/Produced Water
Volume Recovered: 0 bbls/Produced Water

Prepared for:
COG Operating, LLC
15 West London Rd
Loving, NM 88256

Prepared by:
NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79706

TABLE OF CONTENTS

FIGURES

TABLES/PHOTOLOG

APPENDICES

701 Tradewinds Boulevard, Suite C
Midland, Texas 79706
Tel. 432.685.3898
www.ntglobal.com

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November 3, 2021

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Work Plan
Admiral 2H Flowline (08.26.21)
COG Operating, LLC
Site Location: Unit L, S34, T25S, R29E
Incident #: NAPP2125630520
(Lat 32.084995º, Long -103.980406°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for Admiral 2H Flowline (08.26.21). The site is located at 32.084995º, -103.980406º within Unit L, S34, T25S, R29E, and approximately 11 miles Southeast of Malaga, New Mexico, in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 26, 2021, caused by a rupture in the flowline, which resulted in a release of forty (40) barrels of produce water along a lease road and onto the pasture. Zero (0) barrels of produced water were recovered. The impact is measured within an area of approximately 550' x 175', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a ½ mile radius of the location. The nearest identified well is located approximately 1.51 miles Northwest of the site in S32, T25S, R29E, and drilled in 1992. The well has a reported depth to groundwater of 98.13' feet below ground surface (ft bgs). A copy of the associated *USGS – National Water Information System Summary* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

Site Assessment

Initial Assessment

On September 3, 2021, NTGE personnel were on site to horizontally and vertically define the release. A total of nine (9) soil sample points (S-1 through S-9) and eight (8) horizontal sample points were installed to total depths ranging from surface to 2.5 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, the area of (S-1) had chloride concentrations ranging from 8,940 mg/kg to 7,510 mg/kg at a depth from surface to 2.5' below surface. The area of (S-2) had chloride concentrations ranging from 13,600 mg/kg to 11,200 mg/kg at a depth from surface to 2.5' below surface. The area of (S-3) had chloride concentrations ranging from 15,500 mg/kg to 13,500 mg/kg at a depth from surface to 2.5' below surface. The area of (S-4) had chloride concentrations ranging from 8,910 mg/kg to 9,850 mg/kg at a depth from surface to 2.5' below surface. The area of (S-5) had chloride concentrations of 6,570 mg/kg at a depth from the surface to 1.0' below the surface. The area of (S-8) had chloride concentrations ranging from 6,300 mg/kg to 1,570 mg/kg at a depth from surface to 2.5' below the surface. The area of (S-9) had chloride concentrations ranging from 10,400 mg/kg to 10,700 mg/kg at a depth from surface to 2.5' below surface.

Trenches

On September 23, 2021, NTGE personnel were onsite to evaluate and trench the areas of sample points S-1, S-2, S-3, S-4, S-5, S-8, and S-9 to define the spill extent vertically. The areas of Trench-1 through Trench-7 were all vertically delineated. Refer to Table 1.

Proposed Work Plan

Based on the laboratory results and the detected chloride concentrations, COG proposes excavating the areas as shown in Figure 4 and highlighted (yellow) in Table 1.

- The areas of S-1 (Trench-1), S-2 (Trench-2), S-3 (Trench-3), and S-4 (Trench-4) will be excavated to 3.0' below surface and backfilled with clean material to grade.

- The area of S-5 (Trench-5) will be excavated to a depth of 1.5' below surface and backfilled with clean material to grade.

- The areas of S-8 (Trench-6) and S-9 (Trench-7) will be excavated to a depth of 4.0'-4.5' below surface and backfilled with clean material to grade.

Safety Concerns

The proposed excavation depths may not be reached due to wall cave-ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent possible.

Composite sidewall and bottom hole samples will be collected every 200 square feet and analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B. Chloride by EPA method 300.0., to be representative of the release area for documentation purposes. COG estimates approximately 1,890 cubic yards to be removed and hauled to the nearest disposal.

Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

Conclusions

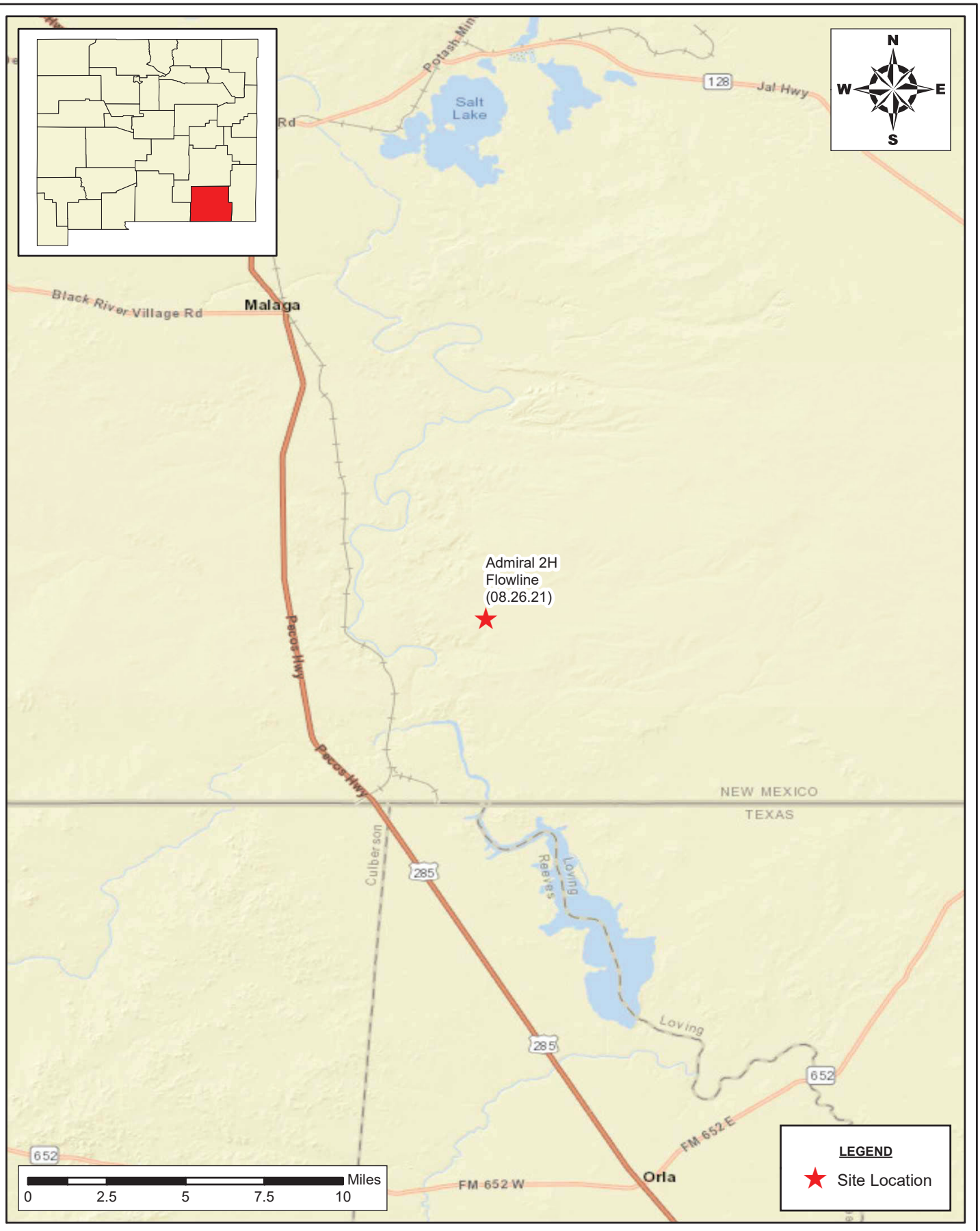
Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,
NTG Environmental

Mike Carmona
Senior Project Manager

Ashton Thielke
Project Manager

Figures



SITE LOCATION MAP
COG OPERATING, LLC
ADMIRAL 2H FLOWLINE (08.26.21)
EDDY COUNTY, NEW MEXICO
32.084995°, -103.980406°

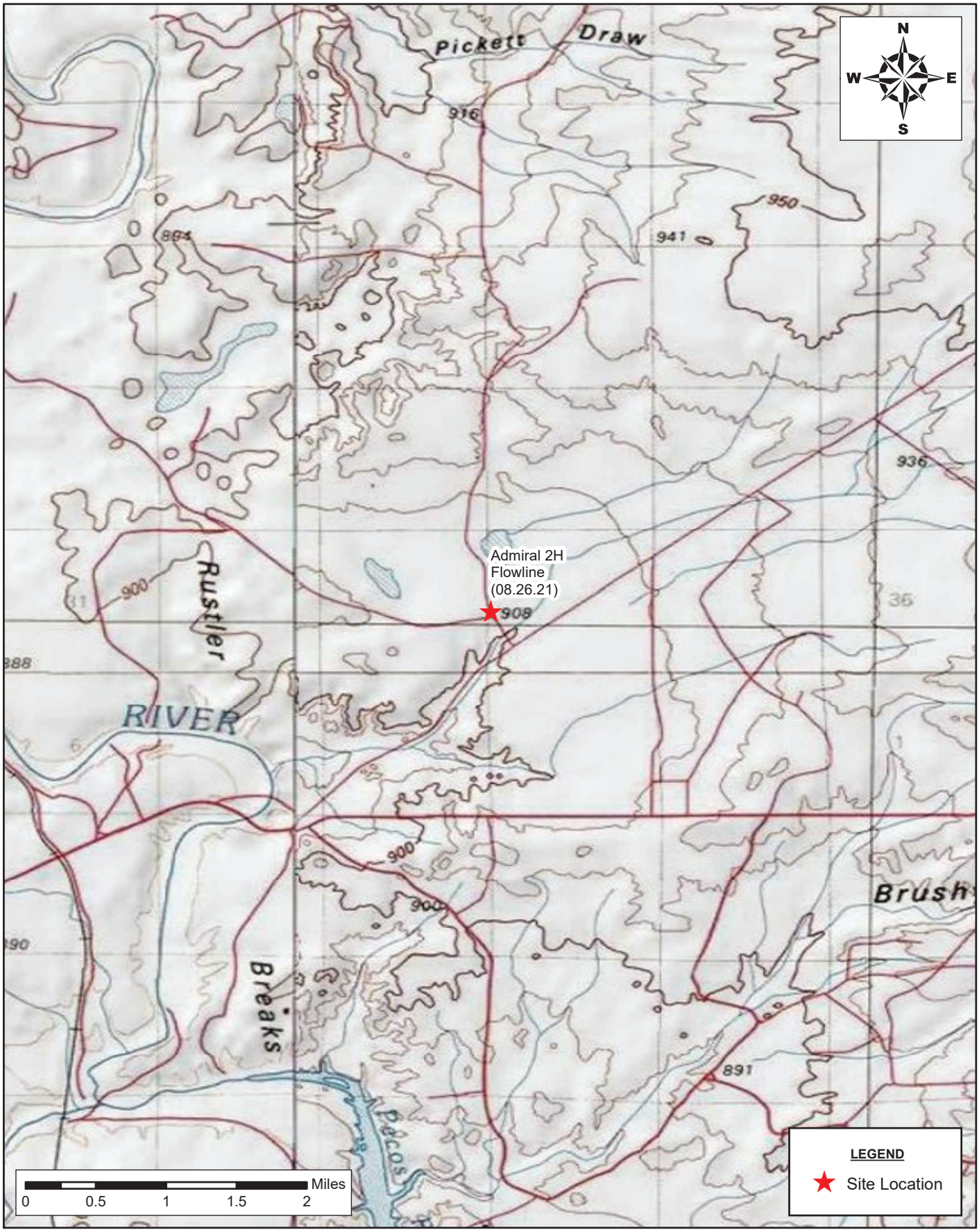
SCALE: As Shown | Date: 11/2/2021 | Project #:214630

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image:Google Earth
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COG\RSC\214630 Admiral 2H Flowline (08.26.21)\7 - Figures\Geodatabase\Figure_1_SLMap_11022021.mxd



AREA MAP
COG OPERATING, LLC
ADMIRAL 2H FLOWLINE (08.26.21)
EDDY COUNTY, NEW MEXICO
32.084995°, -103.980406°

SCALE: As Shown | Date: 11/2/2021 | Project #:214630

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NOTES:
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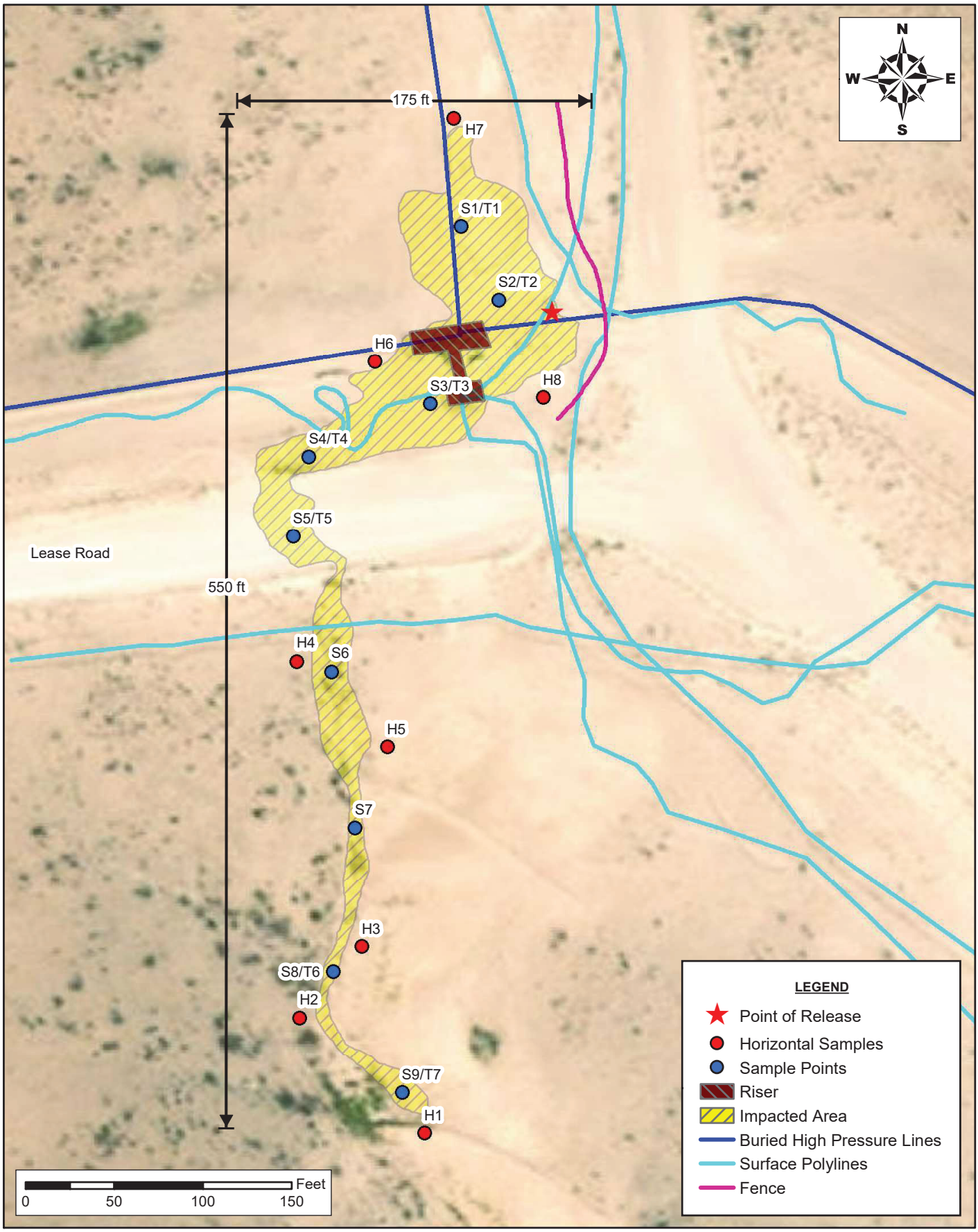
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COG\RSC\214630 Admiral 2H Flowline (08.26.21)\7 - Figures\Geodatabase\Figure_2_AreaMap_11022021.mxd



SAMPLE LOCATION MAP
COG OPERATING, LLC
ADMIRAL 2H FLOWLINE (08.26.21)
EDDY COUNTY, NEW MEXICO
32.084995°, -103.980406°

SCALE: As Shown | Date: 11/2/2021 | Project #:214630

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NOTES:
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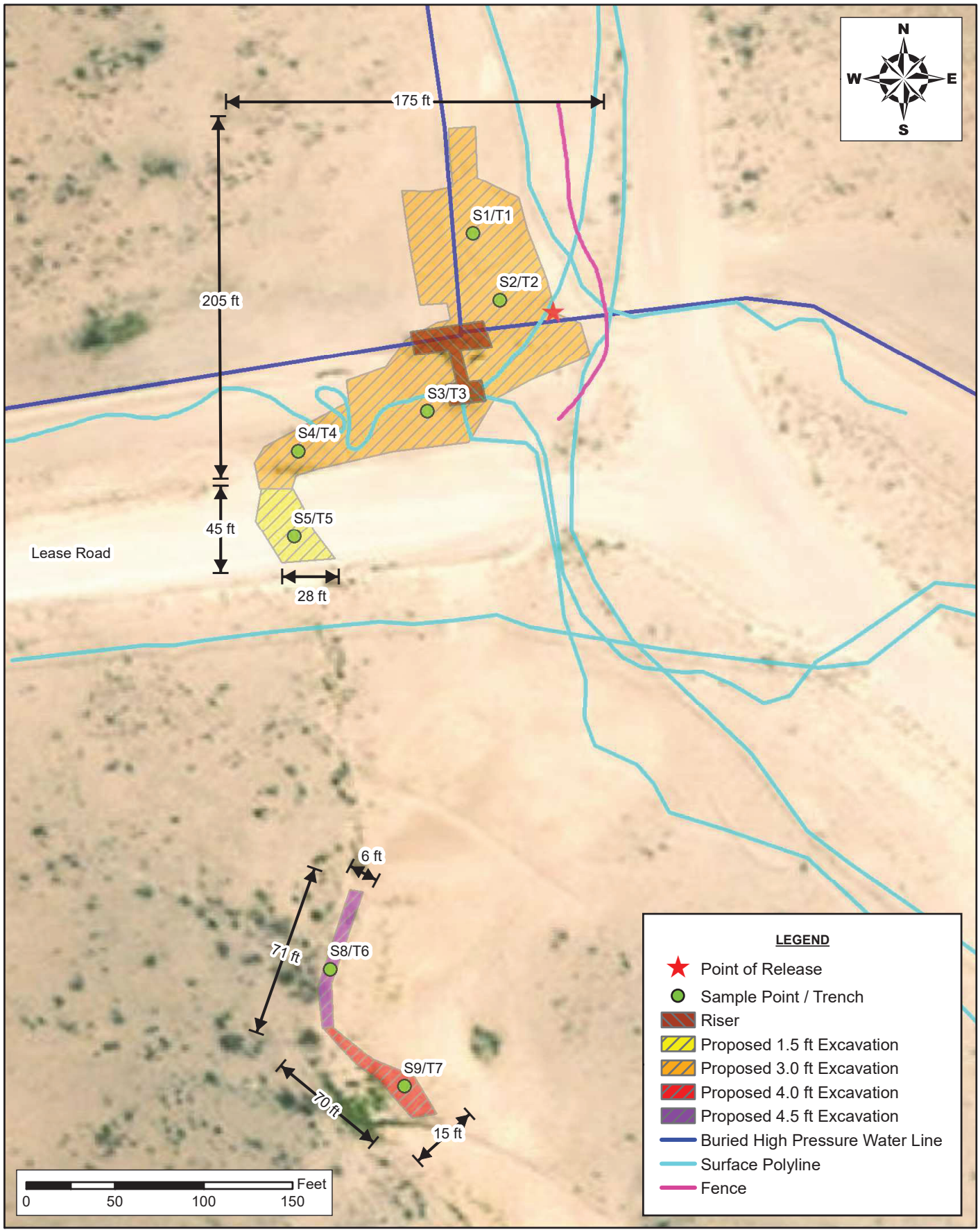
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COG\RSC\214630 Admiral 2H Flowline (08.26.21)\7 - Figures\Geodatabase\Figure_3_SamLoc_11022021.mxd



PROPOSED EXCAVATION AREA and DEPTH MAP
COG OPERATING, LLC
ADMIRAL 2H FLOWLINE (08.26.21)
EDDY COUNTY, NEW MEXICO
32.084995°, -103.980406°

SCALE: As Shown	Date: 11/2/2021	Project #:214630

New Tech Global Environmental, LLC
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Web: www.ntglobal.com

NOTES:
1. Base Image:Google Earth
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COG\RSC\214630 Admiral 2H Flowline (08.26.21)\7 - Figures\Geodatabase\Figure_4_Pro_Ex_Depth_Map_11022021.mxd

Tables

Table 1
Concho Operating, LLC
Admiral 2H Flowline (08.26.21)
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	9/3/2021	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,940**
	"	1-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**9,850**
	"	2-2.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**7,510**
Trench 1	9/23/2021	0-1	<49.8	<49.8	<49.8	<50.0	<0.00201	<0.00201	<0.00201	0.00425	0.00425	**2,540**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	**2,760**
	"	2	<49.9	58.5	<49.9	58.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00200	**2,910**
	"	3	<49.9	<49.9	<49.9	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	53.8
S-2	9/3/2021	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**13,600**
	"	1-1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**13,100**
	"	2-2.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**11,200**
Trench 2	9/23/2021	0-1	<49.8	<49.8	<49.8	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	**6,250**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00200	**7,000**
	"	2	<49.9	<49.9	<49.9	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	**8,860**
	"	3	<49.9	<49.9	<49.9	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.200	94.8
S-3	9/3/2021	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**15,500**
	"	1-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**13,900**
	"	2-2.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**13,500**
Trench 3	9/23/2021	0-1	<49.8	<49.8	<49.8	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.200	**4,540**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.100	**2,910**
	"	2	<49.9	<49.9	<49.9	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00200	**3,510**
	"	3	<49.9	<49.9	<49.9	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	372
	"	4	<49.9	<49.9	<49.9	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	97.2
	"	5	<49.8	<49.8	<49.8	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	56.5
S-4	9/3/2021	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**8,910**
	"	1-1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,860**
	"	2-2.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**9,850**
Trench 4	9/23/2021	0-1	<49.8	<49.8	<49.8	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.200	**4,540**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.100	**2,910**
	"	2	<49.9	<49.9	<49.9	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00200	**3,510**
	"	3	<49.9	<49.9	<49.9	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	372
S-5	9/3/2021	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**6,570**
Trench 5	9/23/2021	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**6,950**
	"	1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	393
	"	2	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.6
S-6	9/3/2021	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	166
	"	1-1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	402
	"	2-2.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	342
S-7	9/3/2021	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	147
	"	1-1.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	160
	"	2-2.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	197

Table 1
Concho Operating, LLC
Admiral 2H Flowline (08.26.21)
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-8	9/3/2021	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**6,300**
	"	1-1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**5,470**
	"	2-2.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**1,570**
Trench 6	9/23/2021	0-1	<49.8	<49.8	<49.8	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	**6,560**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	**4,710**
	"	2	<49.9	<49.9	<49.9	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	**4,070**
	"	3	<49.9	<49.9	<49.9	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	424
	"	4	<49.8	<49.8	<49.8	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00200	**769**
	"	4.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.8
S-9	9/3/2021	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,400**
	"	1-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**10,900**
	"	2-2.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**10,700**
Trench 7	9/23/2021	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	**2,110**
	"	1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	**1,690**
	"	2	<49.8	<49.8	<49.8	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	**2,320**
	"	3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	**1,680**
	"	4	<49.8	<49.8	<49.8	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00200	168
	"	5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	313
H-1	9/3/2021	0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	65.7
H-2	9/3/2021	0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	46.7
H-3	9/3/2021	0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	57.3
H-4	9/3/2021	0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	50.7
H-5	9/3/2021	0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	142
H-6	9/3/2021	0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	26.0
H-7	9/3/2021	0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	27.5
H-8	9/3/2021	0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	25.4
Regulatory Limits						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

Proposed Excavation Depths
(-) Not Analyzed
A – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet

Photo Log

PHOTOGRAPHIC LOG

COG Operating, LLC

Photograph No. 1

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

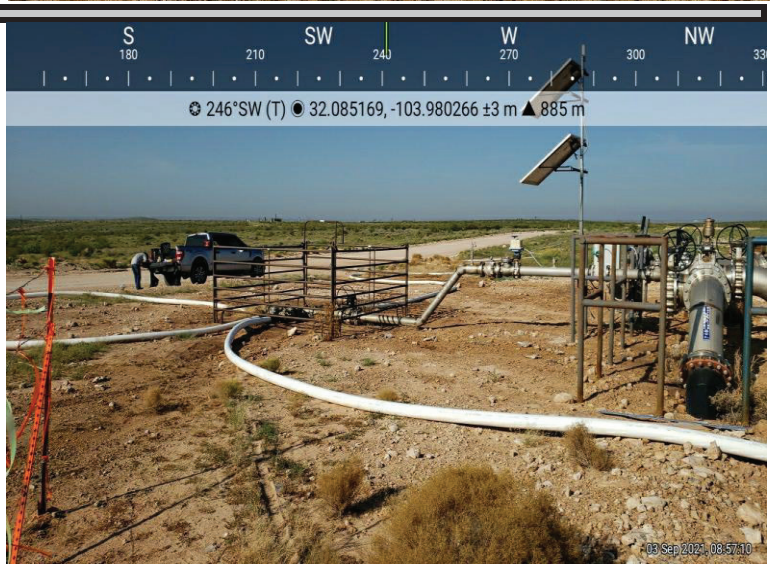
Description:
View South, areas of S-1/T-1 and S-2/T-2.

Photograph No. 2

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

Description:
View Southwest, area of S-3/T-3, S-4/T-4, and S-5/T-5.



Photograph No. 3

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

Description:
View South, area of S-6.

PHOTOGRAPHIC LOG

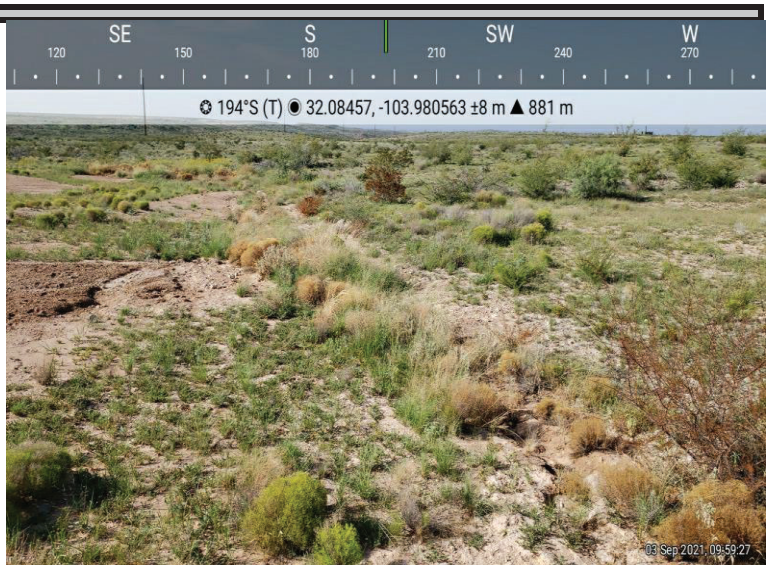
COG Operating, LLC

Photograph No. 4

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

Description:
View South, area of S-7.



Photograph No. 5

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

Description:
View Southeast, area of S-8/T-6.

Photograph No. 6

Facility: Admiral 2H Flowline (08.26.21)

County: Eddy County, New Mexico

Description:
View West, area of S-9/T-7.

Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2125630520
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.085071 Longitude -103.980267
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Admiral 002H	Site Type	Flowline
Date Release Discovered	August 26, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
L	34	25S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 40	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a split in the line.
The release was on the a lease road and ran into the pasture. No fluids were recovered.
Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice was given by Jacqui Harris via e-mail August 27,2021 at 2:30 am to mailto: blm_nm_cfo_spill@blm.gov and mailto:OCD.enviro@state.nm.us

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 9/10/2021

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 9/13/2021

NAPP2125630520

L48 Spill Volume Estimate Form

Facility Name & Number:	Admiral 2H
Asset Area:	DBWN
Release Discovery Date & Time:	8/26/2021
Release Type:	Produced Water
Provide any known details about the event:	Line driven over and split line. Release on Lease Road and Pasture

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	106.0	82.0	2.50	10.00%	322.328	32.233
Rectangle B	20.0	10.0	1.50	8.00%	4.450	0.356
Rectangle C	70.0	10.0	1.50	10.00%	15.575	1.558
Rectangle D	100.0	10.0	1.75	10.00%	25.958	2.596
Rectangle E	60.0	70.0	0.50	10.00%	31.150	3.115
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	39.857

Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
[redacted]		

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 47910
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	9/13/2021

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	98.13 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☑ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

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

Printed Name: Jacqui Harris Title: Environmental Coordinator

Signature: _____ Date: _____

email: Jacqui.Harris@ConocoPhillips.com Telephone: (575) 496-0780

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2125630520
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Jacqui Harris Title: Environmental Coordinator

Signature: _____ Date: _____

email: Jacqui.Harris@ConocoPhillips.com Telephone: (575) 496-0780

OCD Only

Received by: _____ Date: _____

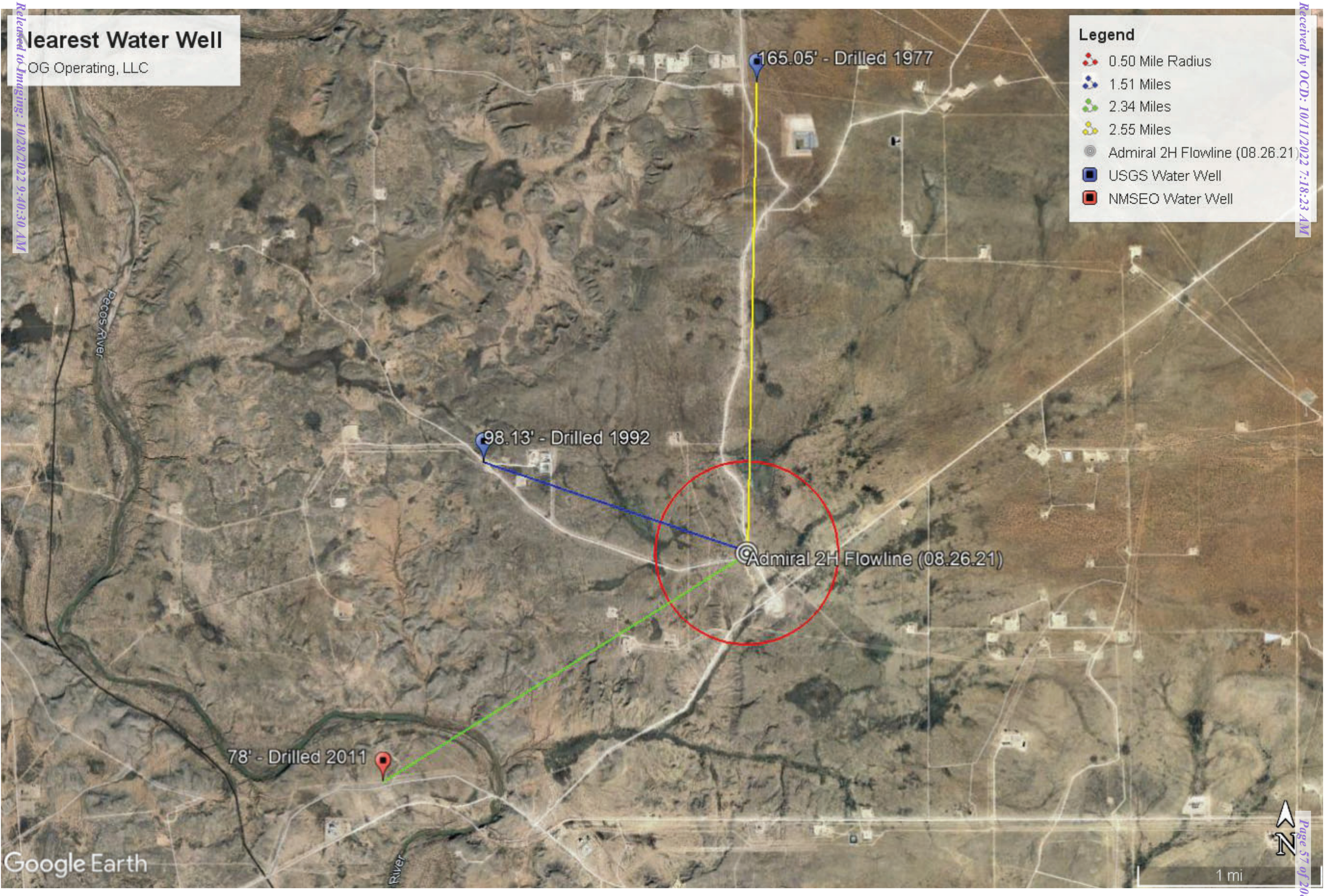
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

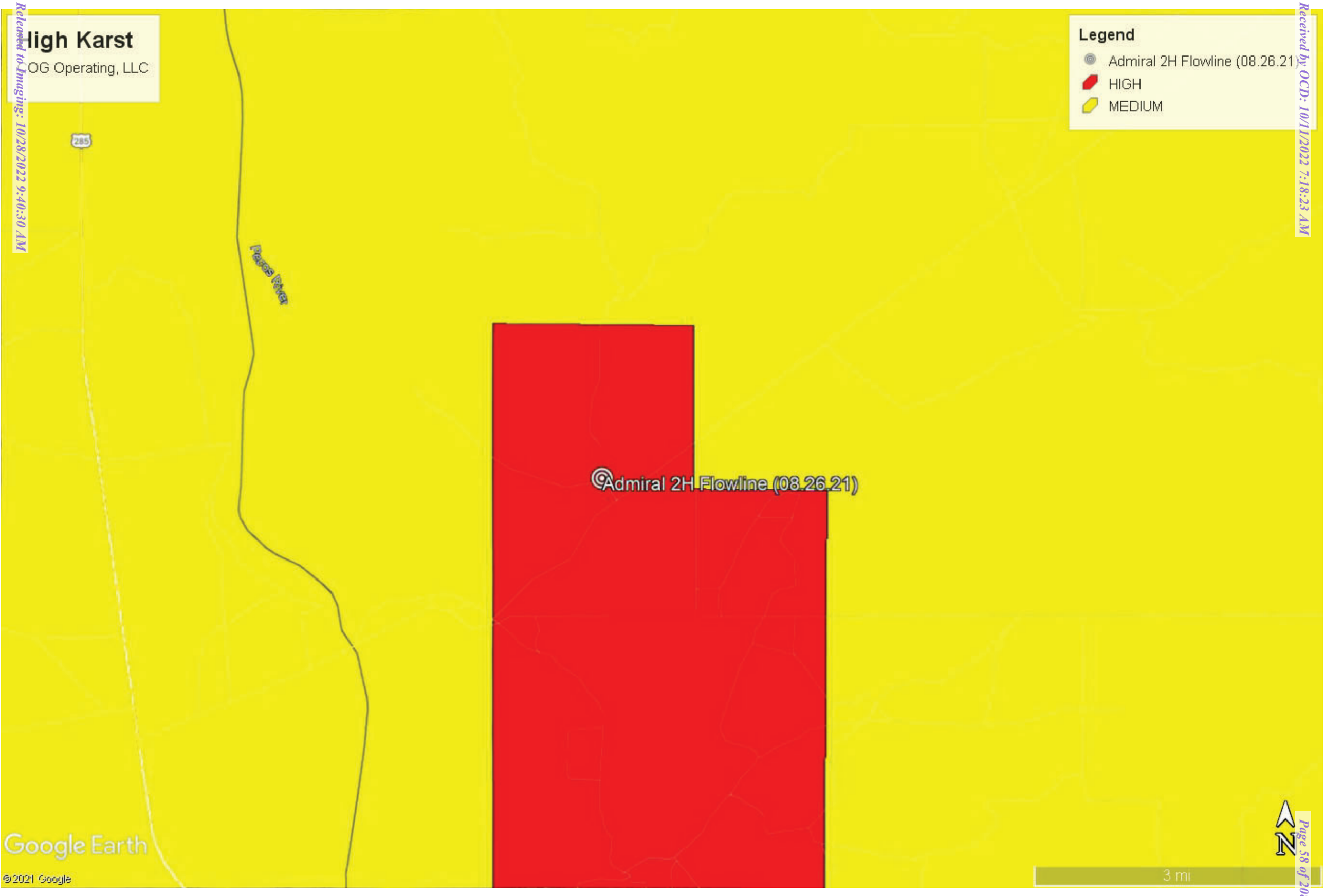
Signature: _____ Date: _____

Appendix B

Nearest Water Well

OG Operating, LLC





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01337	C	ED		2	1	30	25S	29E	591926	3552642*	180	30	150
C 01880	C	ED	3	3	2	06	25S	29E	592161	3558605*	85	40	45
C 02371	C	ED		2	3	15	25S	29E	596741	3555106*	200	60	140
C 02459	C	ED	4	4	1	02	25S	29E	598422	3558663*	150		
C 02518	C	ED		3	4	08	25S	29E	593895	3556300*	462		
C 02680	CUB	ED		2	3	15	25S	29E	596741	3555106*	200		
C 04324 POD10	CUB	ED	1	1	1	09	25S	29E	594563	3557603	65	60	5
C 04324 POD11	CUB	ED	1	1	1	09	25S	29E	594576	3557619	61	61	0
C 04324 POD12	CUB	ED	2	2	2	08	25S	29E	594476	3557627	65	60	5
C 04324 POD6	CUB	ED	1	1	1	09	25S	29E	594538	3557657	62	61	1
C 04324 POD8	CUB	ED	4	4	4	05	25S	29E	594442	3557807	69	65	4
C 04324 POD9	CUB	ED	1	1	1	09	25S	29E	594590	3557676	72	62	10
C 04473 POD1	CUB	ED	3	4	3	33	25S	29E	595018	3549768	110		
C 04493 POD1	CUB	ED	4	4	4	06	25S	29E	592760	3557765	57	39	18
C 04503 POD1	CUB	ED	4	3	3	09	25S	29E	594884	3556142			
C 04525 POD1	CUB	ED	3	1	2	10	25S	29E	596976	3557505			
C 04558 POD1	CUB	ED	3	4	3	23	25S	29E	598354	3553039			

Average Depth to Water: **53 feet**

Minimum Depth: **30 feet**

Maximum Depth: **65 feet**

Record Count: 17

PLSS Search:

Township: 25S **Range:** 29E

***UTM location was derived from PLSS - see Help**

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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320532104001701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico
Latitude 32°05'32", Longitude 104°00'17" NAD27
Land-surface elevation 2,988 feet above NAVD88
The depth of the well is 128 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1949-03-11		D	62610		2871.10	NGVD29	1	Z		
1949-03-11		D	62611		2872.66	NAVD88	1	Z		
1949-03-11		D	72019	115.34			1	Z		
1958-08-19		D	62610		2887.81	NGVD29	1	Z		
1958-08-19		D	62611		2889.37	NAVD88	1	Z		
1958-08-19		D	72019	98.63			1	Z		
1959-03-24		D	62610		2887.84	NGVD29	1	Z		
1959-03-24		D	62611		2889.40	NAVD88	1	Z		
1959-03-24		D	72019	98.60			1	Z		
1978-01-13		D	62610		2891.21	NGVD29	1	Z		
1978-01-13		D	62611		2892.77	NAVD88	1	Z		
1978-01-13		D	72019	95.23			1	Z		
1983-02-01		D	62610		2890.81	NGVD29	1	Z		
1983-02-01		D	62611		2892.37	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1983-02-01		D	72019	95.63			1	Z		
1987-10-14		D	62610		2889.75	NGVD29	1	Z		
1987-10-14		D	62611		2891.31	NAVD88	1	Z		
1987-10-14		D	72019	96.69			1	Z		
1988-04-06		D	62610		2889.51	NGVD29	1	Z		
1988-04-06		D	62611		2891.07	NAVD88	1	Z		
1988-04-06		D	72019	96.93			1	Z		
1992-11-03		D	62610		2888.31	NGVD29	1	S		
1992-11-03		D	62611		2889.87	NAVD88	1	S		
1992-11-03		D	72019	98.13			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-09-02 20:38:50 EDT
0.29 0.26 nadww01

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	C 03507 POD1	1	3	3	05	26S	29E	593064	3548313

Driller License:	1058	**Driller Company:**	KEY'S DRILLING & PUMP SERVICE		
Driller Name:	KEY, CLINTON				
Drill Start Date:	08/26/2011	**Drill Finish Date:**	08/26/2011	**Plug Date:**	
Log File Date:	09/12/2011	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**		**Estimated Yield:**	35 GPM
Casing Size:	6.00	**Depth Well:**	140 feet	**Depth Water:**	78 feet

Water Bearing Stratifications:	Top	Bottom	Description
	78	79	Shale/Mudstone/Siltstone
	105	106	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	112

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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320719103584601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico
Latitude 32°07'19", Longitude 103°58'46" NAD27
Land-surface elevation 3,042 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1958-08-19		D	62610		2870.28	NGVD29	1	Z		
1958-08-19		D	62611		2871.86	NAVD88	1	Z		
1958-08-19		D	72019	170.14			1	Z		
1958-10-23		D	62610		2869.62	NGVD29	1	Z		
1958-10-23		D	62611		2871.20	NAVD88	1	Z		
1958-10-23		D	72019	170.80			1	Z		
1975-12-09		D	62610		2875.47	NGVD29	1	S		
1975-12-09		D	62611		2877.05	NAVD88	1	S		
1975-12-09		D	72019	164.95			1	S		
1976-01-16		D	62610		2873.30	NGVD29	1	S		
1976-01-16		D	62611		2874.88	NAVD88	1	S		
1976-01-16		D	72019	167.12			1	S		
1977-01-14		D	62610		2875.37	NGVD29	1	S		
1977-01-14		D	62611		2876.95	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1977-01-14		D	72019	165.05			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
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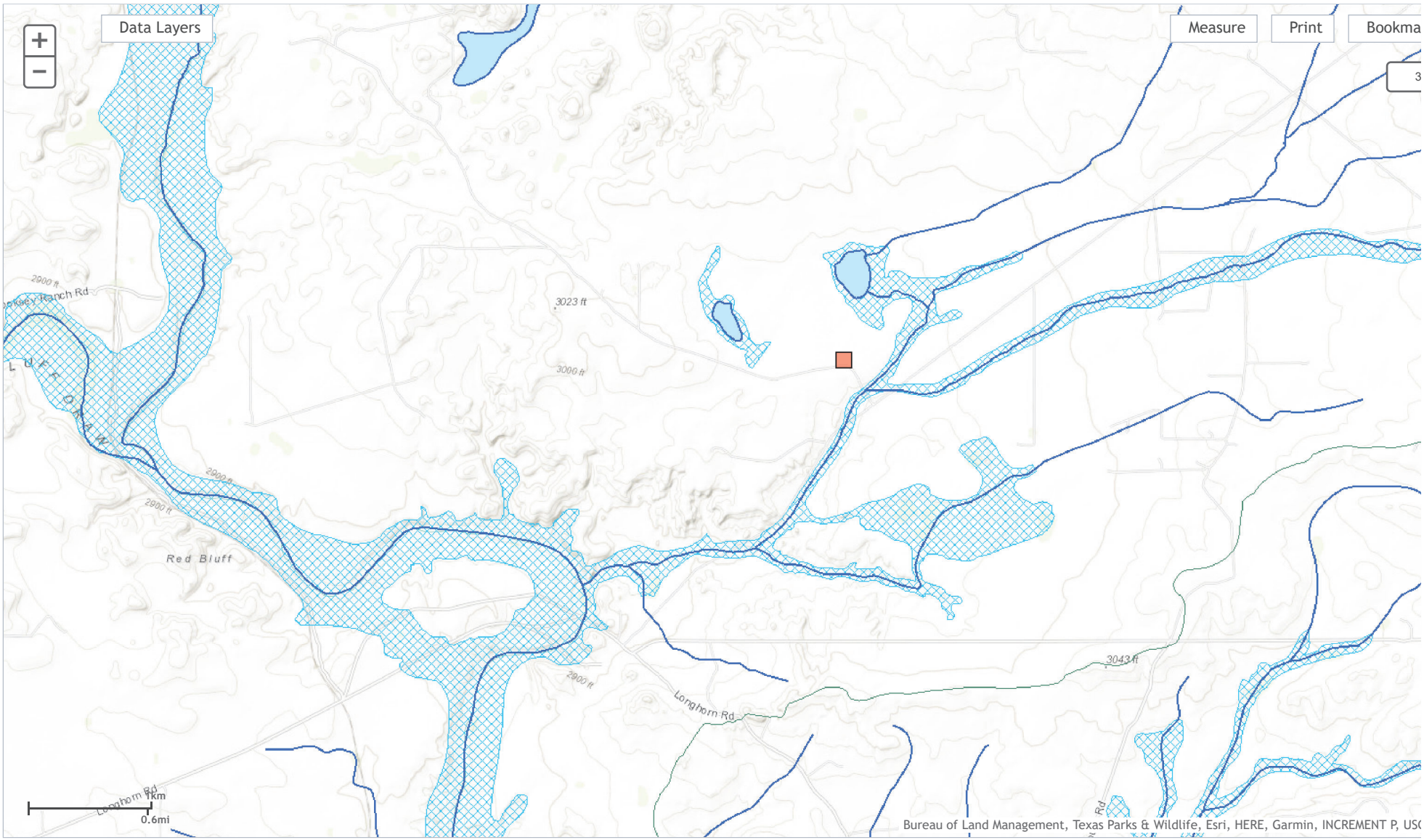
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

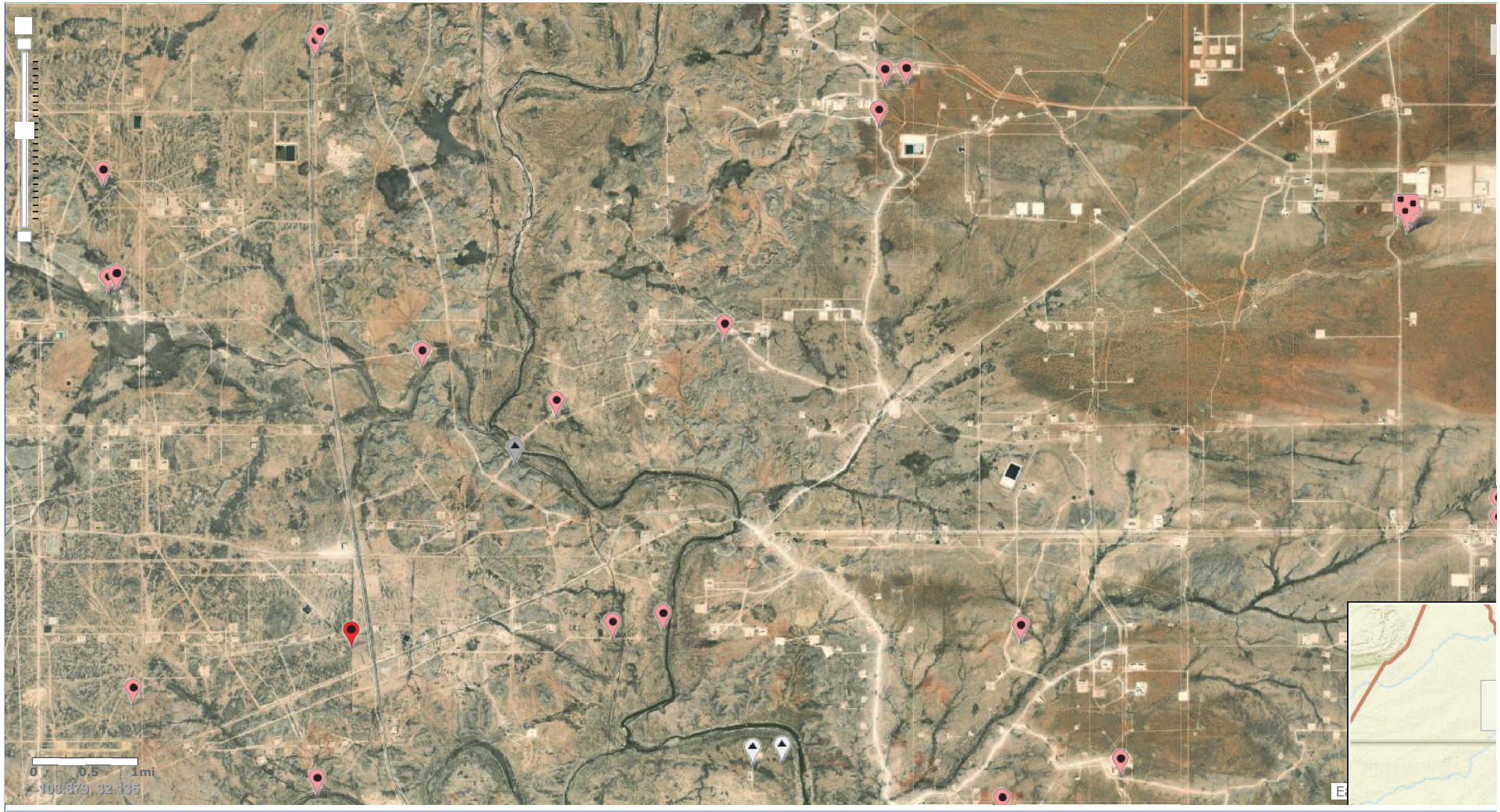
Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-09-02 20:39:58 EDT
0.31 0.28 nadww01

NFHL Web Mapping Application



USGS science for a changing world

National Water Information System: Mapper



Site Information

Appendix D

Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-15615-1
Laboratory Sample Delivery Group: Eddy County
Client Project/Site: Admiral 2H Flowline
Revision: 1

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

Attn: Justin Nixon

Authorized for release by:
7/7/2022 10:16:56 AM

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

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
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)

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Glossary (Continued)

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Job ID: 880-15615-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2390-1

Receipt
The samples were received on 6/8/2022 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

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.

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-15615-1

Receipt
The samples were received on 6/8/2022 10:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27134 and analytical batch 880-27183 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

Narrative

Job Narrative
880-15615-2

Receipt
The samples were received on 6/8/2022 10:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°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
880-15766-1

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Job ID: 880-15615-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Receipt
The samples were received on 6/13/2022 8:09 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA
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 laboratory control sample (LCS) associated with preparation batch 880-27379 and analytical batch 880-27351 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-27379/2-A) and (LCSD 880-27379/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27382 and analytical batch 880-27355 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-27382/2-A) and (LCSD 880-27382/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-15766-A-14-B MS) and (880-15766-A-14-C 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Narrative

Job Narrative
880-15897-1

Receipt
The samples were received on 6/15/2022 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 14.2°C

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.

Narrative

Job Narrative
880-16002-1

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Job ID: 880-15615-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Receipt
The samples were received on 6/17/2022 8:35 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
Method 8021B: Surrogate recovery for the following sample was outside control limits: Test-2-10'-061622 (880-16002-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27745 and analytical batch 880-27737 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27746 and analytical batch 880-27735 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Narrative

Job Narrative
880-16038-1

Receipt
The samples were received on 6/20/2022 8:00 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 3.2°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-16-5'-061722 (880-16038-1), SW-19-5'-061722 (880-16038-2) and (880-16002-A-7-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-20-5'-061722 (880-16038-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-22-5'-061722 (880-16038-5), SW-25-5'-061722 (880-16038-6), SW-24-5'-061722 (880-16038-7) and SW-25-5'-061722 (880-16038-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
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.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Job ID: 880-15615-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Narrative

Job Narrative
880-16307-1

Receipt
The samples were received on 6/27/2022 8:00 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 3.0°C

GC VOA
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: (MB 880-28434/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
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.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-1-2-5-060622

Lab Sample ID: 880-15615-1
Matrix: Solid
Date Collected: 06/06/22 10:15
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 02:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 02:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 02:27	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/09/22 08:48	06/10/22 02:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 02:27	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/09/22 08:48	06/10/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 08:48*	*06/10/22 02:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 08:48*	*06/10/22 02:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 15:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 15:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/08/22 17:15*	*06/09/22 15:29*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/08/22 17:15*	*06/09/22 15:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		4.96		mg/Kg			06/08/22 13:49	1

Client Sample ID: B-2-3-5-060622

Lab Sample ID: 880-15615-2
Matrix: Solid
Date Collected: 06/06/22 09:30
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 02:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 02:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 02:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/09/22 08:48	06/10/22 02:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 02:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/09/22 08:48	06/10/22 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/09/22 08:48*	*06/10/22 02:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 08:48*	*06/10/22 02:54*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-2-3-5-060622

Date Collected: 06/06/22 09:30
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-2

Matrix: Solid

Method: 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			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:14*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.4**		5.00		mg/Kg			06/08/22 14:12	1

Client Sample ID: B-3-3-5-060622

Date Collected: 06/06/22 09:35
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 03:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 03:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 03:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/09/22 08:48	06/10/22 03:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/10/22 03:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/09/22 08:48	06/10/22 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 08:48*	*06/10/22 03:21*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 08:48*	*06/10/22 03:21*	*1*

Method: 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			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-3-3-5-060622
Date Collected: 06/06/22 09:35
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-3
Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:35*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		25.0		mg/Kg			06/08/22 14:20	5

Client Sample ID: B-4-2-5-060622
Date Collected: 06/06/22 10:25
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/10/22 03:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/10/22 03:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/10/22 03:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/09/22 08:48	06/10/22 03:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/10/22 03:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/09/22 08:48	06/10/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/09/22 08:48*	*06/10/22 03:48*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/09/22 08:48*	*06/10/22 03:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:58*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/08/22 17:15*	*06/09/22 16:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.2**		5.01		mg/Kg			06/08/22 14:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-2-1.5-5-060622

Lab Sample ID: 880-15615-5
Matrix: Solid
Date Collected: 06/06/22 09:40
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 04:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 04:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 04:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/09/22 08:48	06/10/22 04:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 04:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/09/22 08:48	06/10/22 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/09/22 08:48*	*06/10/22 04:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 08:48*	*06/10/22 04:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/08/22 17:15*	*06/09/22 17:21*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/08/22 17:15*	*06/09/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**128**		25.0		mg/Kg			06/08/22 14:36	5

Client Sample ID: SW-3-1.5-5-060622

Lab Sample ID: 880-15615-6
Matrix: Solid
Date Collected: 06/06/22 09:45
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/10/22 04:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/10/22 04:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/10/22 04:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/09/22 08:48	06/10/22 04:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/10/22 04:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/09/22 08:48	06/10/22 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 08:48*	*06/10/22 04:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 08:48*	*06/10/22 04:43*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-3-1.5-5-060622

Lab Sample ID: 880-15615-6
Matrix: Solid
Date Collected: 06/06/22 09:45
Date Received: 06/08/22 10:33

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/08/22 17:15*	*06/09/22 17:43*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/08/22 17:15*	*06/09/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.7**		4.97		mg/Kg			06/08/22 15:00	1

Client Sample ID: B-13-1'-5-060622

Lab Sample ID: 880-15615-7
Matrix: Solid
Date Collected: 06/06/22 12:25
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 05:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 05:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 05:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/10/22 05:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 05:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/10/22 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 08:48*	*06/10/22 05:10*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/09/22 08:48*	*06/10/22 05:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-13-1'-5-060622

Lab Sample ID: 880-15615-7
Matrix: Solid
Date Collected: 06/06/22 12:25
Date Received: 06/08/22 10:33

Method: 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)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:05*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**833**		4.96		mg/Kg			06/08/22 15:07	1

Client Sample ID: B-14-1'-5-060622

Lab Sample ID: 880-15615-8
Matrix: Solid
Date Collected: 06/06/22 12:30
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/15/22 16:00	06/17/22 16:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/15/22 16:00	06/17/22 16:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/15/22 16:00	06/17/22 16:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/15/22 16:00	06/17/22 16:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/15/22 16:00	06/17/22 16:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/15/22 16:00	06/17/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/15/22 16:00*	*06/17/22 16:02*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/15/22 16:00*	*06/17/22 16:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/22 17:15	06/09/22 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:30*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		5.04		mg/Kg			06/08/22 15:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-1-1-5-060622

Lab Sample ID: 880-15615-9
Matrix: Solid
Date Collected: 06/06/22 12:35
Date Received: 06/08/22 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		06/09/22 08:57	06/10/22 04:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:57	06/10/22 04:32	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/09/22 08:57	06/10/22 04:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/09/22 08:57	06/10/22 04:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:57	06/10/22 04:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/09/22 08:57	06/10/22 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/09/22 08:57*	*06/10/22 04:32*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/22 08:57*	*06/10/22 04:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/10/22 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:51*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/08/22 17:15*	*06/09/22 18:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**435**		25.0		mg/Kg			06/08/22 15:23	5

Client Sample ID: B-13-2'-060922

Lab Sample ID: 880-15766-1
Matrix: Solid
Date Collected: 06/09/22 09:00
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 08:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/16/22 15:05*	*06/18/22 08:28*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/16/22 15:05*	*06/18/22 08:28*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-13-2'-060922
Date Collected: 06/09/22 09:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-1
Matrix: Solid

Method: 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			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 12:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		06/13/22 09:28	06/13/22 12:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/13/22 09:28*	*06/13/22 12:33*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/13/22 09:28*	*06/13/22 12:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		4.95		mg/Kg			06/13/22 17:39	1

Client Sample ID: B-15-5'-060922
Date Collected: 06/09/22 13:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 08:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 08:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 08:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 08:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 08:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/16/22 15:05*	*06/18/22 08:53*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/16/22 15:05*	*06/18/22 08:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 13:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-15-5'-060922
Date Collected: 06/09/22 13:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/13/22 09:28*	*06/13/22 13:39*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/13/22 09:28*	*06/13/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		25.2		mg/Kg			06/13/22 17:46	5

Client Sample ID: B-16-5'-060922
Date Collected: 06/09/22 13:35
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 09:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 09:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:13*	*1*

Method: 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			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/13/22 09:28*	*06/13/22 14:01*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/13/22 09:28*	*06/13/22 14:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**245**		25.1		mg/Kg			06/13/22 17:54	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-17-5'-060922

Date Collected: 06/09/22 14:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 09:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/13/22 09:28*	*06/13/22 14:23*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/13/22 09:28*	*06/13/22 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		24.9		mg/Kg			06/13/22 18:02	5

Client Sample ID: SW-4-2.5'-060922

Date Collected: 06/09/22 14:10
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 09:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 09:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:54*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/16/22 15:05*	*06/18/22 09:54*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-4-2.5'-060922

Lab Sample ID: 880-15766-5
Matrix: Solid
Date Collected: 06/09/22 14:10
Date Received: 06/13/22 08:09

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 12:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 12:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/13/22 09:31*	*06/13/22 12:33*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/13/22 09:31*	*06/13/22 12:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**530**		4.99		mg/Kg			06/13/22 18:10	1

Client Sample ID: SW-5-2.5'-060922

Lab Sample ID: 880-15766-6
Matrix: Solid
Date Collected: 06/09/22 14:20
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 10:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:15*	*1*

Method: 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			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 13:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-5-2.5'-060922

Lab Sample ID: 880-15766-6
Matrix: Solid
Date Collected: 06/09/22 14:20
Date Received: 06/13/22 08:09

Method: 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)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/13/22 09:31*	*06/13/22 13:39*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/13/22 09:31*	*06/13/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**483**		5.04		mg/Kg			06/13/22 18:18	1

Client Sample ID: B-18-3.5'-061022

Lab Sample ID: 880-15766-7
Matrix: Solid
Date Collected: 06/10/22 09:30
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 10:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 10:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 10:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 10:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 10:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:35*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 14:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 14:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:31	06/13/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:01*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		5.05		mg/Kg			06/13/22 17:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-19-3.5'-061022

Lab Sample ID: 880-15766-8
Matrix: Solid
Date Collected: 06/10/22 09:35
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 10:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 10:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/16/22 15:05*	*06/18/22 10:56*	*1*

Method: 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			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:23*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**289**		4.98		mg/Kg			06/13/22 17:54	1

Client Sample ID: SW-6-1.5'-061022

Lab Sample ID: 880-15766-9
Matrix: Solid
Date Collected: 06/10/22 09:40
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 11:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/16/22 15:05*	*06/18/22 11:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 11:16*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-6-1.5'-061022

Lab Sample ID: 880-15766-9
Matrix: Solid
Date Collected: 06/10/22 09:40
Date Received: 06/13/22 08:09

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:45*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/13/22 09:31*	*06/13/22 14:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.02		mg/Kg			06/13/22 18:03	1

Client Sample ID: SW-7-1.5'-061022

Lab Sample ID: 880-15766-10
Matrix: Solid
Date Collected: 06/10/22 09:45
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 11:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 11:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/16/22 15:05*	*06/18/22 11:37*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 11:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

Method: 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		06/13/22 09:34	06/13/22 12:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		06/13/22 09:34	06/13/22 12:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-7-1.5'-061022

Lab Sample ID: 880-15766-10
Matrix: Solid
Date Collected: 06/10/22 09:45
Date Received: 06/13/22 08:09

Method: 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)	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*06/13/22 09:34*	*06/13/22 12:07*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/13/22 09:34*	*06/13/22 12:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		4.98		mg/Kg			06/13/22 18:31	1

Client Sample ID: B-20-3'-061022

Lab Sample ID: 880-15766-11
Matrix: Solid
Date Collected: 06/10/22 14:15
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/16/22 15:05*	*06/18/22 12:59*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/16/22 15:05*	*06/18/22 12:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:12*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.95		mg/Kg			06/13/22 18:40	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-21-3'-061022

Lab Sample ID: 880-15766-12
Matrix: Solid
Date Collected: 06/10/22 14:20
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 13:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/16/22 15:05	06/18/22 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/16/22 15:05*	*06/18/22 13:20*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 13:20*	*1*

Method: 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			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 13:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 13:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:34*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		24.9		mg/Kg			06/13/22 18:49	5

Client Sample ID: B-22-3'-061022

Lab Sample ID: 880-15766-13
Matrix: Solid
Date Collected: 06/10/22 14:30
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/16/22 15:05	06/18/22 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 13:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/16/22 15:05	06/18/22 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/16/22 15:05*	*06/18/22 13:40*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/16/22 15:05*	*06/18/22 13:40*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-22-3'-061022
Date Collected: 06/10/22 14:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-13
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:34	06/13/22 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:56*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/13/22 09:34*	*06/13/22 13:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		24.9		mg/Kg			06/13/22 18:58	5

Client Sample ID: B-22-3'-061022
Date Collected: 06/10/22 14:45
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/16/22 15:05	06/18/22 14:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/16/22 15:05	06/18/22 14:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/16/22 15:05	06/18/22 14:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/16/22 15:05	06/18/22 14:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/16/22 15:05	06/18/22 14:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/16/22 15:05	06/18/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:01*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 12:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 12:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-22-3'-061022
Date Collected: 06/10/22 14:45
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/13/22 09:36*	*06/13/22 12:07*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/13/22 09:36*	*06/13/22 12:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.3**		4.95		mg/Kg			06/13/22 19:08	1

Client Sample ID: SW-8-1.5'-061022
Date Collected: 06/10/22 15:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 14:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 14:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 14:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/16/22 15:05	06/18/22 14:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 14:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/16/22 15:05	06/18/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:36	06/13/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*06/13/22 09:36*	*06/13/22 13:12*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/13/22 09:36*	*06/13/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		5.04		mg/Kg			06/13/22 19:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-9-1.5'-061022

Lab Sample ID: 880-15766-16
Matrix: Solid
Date Collected: 06/10/22 15:30
Date Received: 06/13/22 08:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 14:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 14:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 14:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 14:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/16/22 15:05	06/18/22 14:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/16/22 15:05	06/18/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:42*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/16/22 15:05*	*06/18/22 14:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 13:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 13:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/13/22 09:36*	*06/13/22 13:34*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/13/22 09:36*	*06/13/22 13:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		4.98		mg/Kg			06/13/22 19:26	1

Client Sample ID: B-25-6'-061422

Lab Sample ID: 880-15897-1
Matrix: Solid
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 08:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/17/22 09:57	06/18/22 21:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/17/22 09:57	06/18/22 21:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/17/22 09:57	06/18/22 21:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/17/22 09:57	06/18/22 21:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/17/22 09:57	06/18/22 21:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/17/22 09:57	06/18/22 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/17/22 09:57*	*06/18/22 21:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/17/22 09:57*	*06/18/22 21:42*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-25-6'-061422

Lab Sample ID: 880-15897-1
Matrix: Solid
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 08:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 22:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 22:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/15/22 15:05*	*06/15/22 22:22*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/15/22 15:05*	*06/15/22 22:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**341**		5.00		mg/Kg			06/15/22 21:41	1

Client Sample ID: B-24-7'-061422

Lab Sample ID: 880-15897-2
Matrix: Solid
Date Collected: 06/14/22 11:53
Date Received: 06/15/22 08:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 22:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 22:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 22:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/17/22 09:57	06/18/22 22:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 22:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/17/22 09:57	06/18/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/17/22 09:57*	*06/18/22 22:09*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/17/22 09:57*	*06/18/22 22:09*	*1*

Method: 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			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 23:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 23:26	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-24-7'-061422

Lab Sample ID: 880-15897-2
Matrix: Solid
Date Collected: 06/14/22 11:53
Date Received: 06/15/22 08:45

Method: 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)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/15/22 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/15/22 15:05*	*06/15/22 23:26*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/15/22 15:05*	*06/15/22 23:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**461**		4.99		mg/Kg			06/15/22 21:51	1

Client Sample ID: SW-10-3'-061422

Lab Sample ID: 880-15897-3
Matrix: Solid
Date Collected: 06/14/22 12:00
Date Received: 06/15/22 08:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 22:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 22:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 22:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 22:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 22:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/17/22 09:57*	*06/18/22 22:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/17/22 09:57*	*06/18/22 22:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 23:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/15/22 15:05*	*06/15/22 23:47*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/15/22 15:05*	*06/15/22 23:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**653**		25.2		mg/Kg			06/15/22 22:18	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-26-4.5'-061422

Date Collected: 06/14/22 15:55
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 23:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:01*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:08*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.7**		4.98		mg/Kg			06/15/22 22:27	1

Client Sample ID: SW-15-2.5'-061422

Date Collected: 06/14/22 16:00
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/17/22 09:57	06/18/22 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/17/22 09:57	06/18/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:27*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-15-2.5'-061422

Lab Sample ID: 880-15897-5
Matrix: Solid
Date Collected: 06/14/22 16:00
Date Received: 06/15/22 08:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/16/22 00:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/16/22 00:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/16/22 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:28*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**345**		4.95		mg/Kg			06/16/22 11:59	1

Client Sample ID: SW-16-2.5'-061422

Lab Sample ID: 880-15897-6
Matrix: Solid
Date Collected: 06/14/22 16:05
Date Received: 06/15/22 08:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 23:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 23:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 23:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/17/22 09:57	06/18/22 23:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 23:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/17/22 09:57	06/18/22 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:53*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/17/22 09:57*	*06/18/22 23:53*	*1*

Method: 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			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-16-2.5'-061422

Lab Sample ID: 880-15897-6
Date Collected: 06/14/22 16:05
Matrix: Solid
Date Received: 06/15/22 08:45

Method: 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)	<49.9	U	49.9		mg/Kg		06/15/22 15:05	06/16/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:48*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/15/22 15:05*	*06/16/22 00:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**931**		24.9		mg/Kg			06/15/22 22:46	5

Client Sample ID: SW-10-3.5'-061622

Lab Sample ID: 880-16002-1
Date Collected: 06/16/22 09:40
Matrix: Solid
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 19:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 19:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 19:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:31	06/21/22 19:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 19:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:31	06/21/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:12*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**136**		49.9		mg/Kg			06/17/22 18:51	1

Method: 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 *1	49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1
Diesel Range Organics (Over C10-C28)	**136**		49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/17/22 10:30*	*06/17/22 14:21*	*1*
o-Terphenyl	*0.3*	*S1-*	*70 - 130*	*06/17/22 10:30*	*06/17/22 14:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.3**		4.96		mg/Kg			06/17/22 16:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-11-3'-061622

Lab Sample ID: 880-16002-2
Date Collected: 06/16/22 09:00
Matrix: Solid
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/20/22 16:31	06/21/22 19:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/20/22 16:31	06/21/22 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:33*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/17/22 18:51	1

Method: 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 *1	50.0		mg/Kg		06/17/22 10:30	06/17/22 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/22 10:30	06/17/22 16:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/22 10:30	06/17/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/17/22 10:30*	*06/17/22 16:46*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/17/22 10:30*	*06/17/22 16:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.0**		5.00		mg/Kg			06/17/22 16:39	1

Client Sample ID: SW-12-1.5'-061622

Lab Sample ID: 880-16002-3
Date Collected: 06/16/22 09:20
Matrix: Solid
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/20/22 16:31	06/21/22 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 19:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/20/22 16:31	06/21/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:53*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/20/22 16:31*	*06/21/22 19:53*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-12-1.5'-061622

Lab Sample ID: 880-16002-3
Matrix: Solid
Date Collected: 06/16/22 09:20
Date Received: 06/17/22 08:35

Method: 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			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/22 18:51	1

Method: 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 *1	49.9		mg/Kg		06/17/22 10:30	06/17/22 17:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 17:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:06*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		4.99		mg/Kg			06/17/22 16:47	1

Client Sample ID: BG-1-10'-061622

Lab Sample ID: 880-16002-4
Matrix: Solid
Date Collected: 06/16/22 14:00
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 20:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 20:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 20:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:31	06/21/22 20:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:31	06/21/22 20:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:31	06/21/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/20/22 16:31*	*06/21/22 20:13*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/20/22 16:31*	*06/21/22 20:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/22 18:51	1

Method: 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 *1	49.8		mg/Kg		06/17/22 10:30	06/17/22 17:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/17/22 10:30	06/17/22 17:28	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: BG-1-10'-061622
Date Collected: 06/16/22 14:00
Date Received: 06/17/22 08:35

Lab Sample ID: 880-16002-4
Matrix: Solid

Method: 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		06/17/22 10:30	06/17/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:28*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.01		mg/Kg			06/17/22 12:58	1

Client Sample ID: BG-2-10'-061622
Date Collected: 06/16/22 14:45
Date Received: 06/17/22 08:35

Lab Sample ID: 880-16002-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/21/22 23:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/21/22 23:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/21/22 23:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/21/22 23:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/21/22 23:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/21/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/21/22 14:16*	*06/21/22 23:38*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/21/22 14:16*	*06/21/22 23:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/22 18:51	1

Method: 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 *1	49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/17/22 10:30*	*06/17/22 14:21*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/17/22 10:30*	*06/17/22 14:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		4.98		mg/Kg			06/17/22 13:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: Test-1-10'-061622

Lab Sample ID: 880-16002-6
Matrix: Solid
Date Collected: 06/16/22 15:00
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 23:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 23:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 23:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 23:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 23:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/21/22 14:16*	*06/21/22 23:58*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/21/22 14:16*	*06/21/22 23:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/22 18:51	1

Method: 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 *1	49.9		mg/Kg		06/17/22 10:30	06/17/22 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 16:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/22 10:30	06/17/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/17/22 10:30*	*06/17/22 16:46*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/17/22 10:30*	*06/17/22 16:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7740**		99.8		mg/Kg			06/17/22 13:30	20

Client Sample ID: Test-2-10'-061622

Lab Sample ID: 880-16002-7
Matrix: Solid
Date Collected: 06/16/22 15:50
Date Received: 06/17/22 08:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/20/22 16:40	06/21/22 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/20/22 16:40	06/21/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 13:45*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/20/22 16:40*	*06/21/22 13:45*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: Test-2-10'-061622

Lab Sample ID: 880-16002-7
Matrix: Solid
Date Collected: 06/16/22 15:50
Date Received: 06/17/22 08:35

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/17/22 18:51	1

Method: 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 *1	50.0		mg/Kg		06/17/22 10:30	06/17/22 17:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/22 10:30	06/17/22 17:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/22 10:30	06/17/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:06*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/17/22 10:30*	*06/17/22 17:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11000**		99.0		mg/Kg			06/17/22 13:38	20

Client Sample ID: SW-16-5'-061722

Lab Sample ID: 880-16038-1
Matrix: Solid
Date Collected: 06/17/22 12:55
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 14:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 14:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 14:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 14:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 14:36*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/20/22 16:40*	*06/21/22 14:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-16-5'-061722
Date Collected: 06/17/22 12:55
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-1
Matrix: Solid

Method: 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)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*06/20/22 16:19*	*06/21/22 05:36*	*1*
o-Terphenyl	*129*		*70 - 130*	*06/20/22 16:19*	*06/21/22 05:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.5**		4.97		mg/Kg			06/21/22 09:07	1

Client Sample ID: SW-19-5'-061722
Date Collected: 06/17/22 13:00
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 15:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 15:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 15:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 15:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 15:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 15:02*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/20/22 16:40*	*06/21/22 15:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 05:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 05:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/20/22 16:19*	*06/21/22 05:57*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/20/22 16:19*	*06/21/22 05:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		5.03		mg/Kg			06/21/22 09:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-20-5'-061722

Lab Sample ID: 880-16038-3
Matrix: Solid
Date Collected: 06/17/22 13:05
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 19:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 19:23*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/20/22 16:40*	*06/21/22 19:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*06/20/22 16:19*	*06/21/22 06:18*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/20/22 16:19*	*06/21/22 06:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.42**		5.00		mg/Kg			06/21/22 09:43	1

Client Sample ID: SW-21-5'-061722

Lab Sample ID: 880-16038-4
Matrix: Solid
Date Collected: 06/17/22 13:10
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/20/22 16:40	06/21/22 19:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 19:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/20/22 16:40	06/21/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*06/20/22 16:40*	*06/21/22 19:49*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/20/22 16:40*	*06/21/22 19:49*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-21-5'-061722

Lab Sample ID: 880-16038-4
Matrix: Solid
Date Collected: 06/17/22 13:10
Date Received: 06/20/22 08:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 06:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 06:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/20/22 16:19*	*06/21/22 06:40*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/20/22 16:19*	*06/21/22 06:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**314**		25.3		mg/Kg			06/21/22 09:53	5

Client Sample ID: SW-22-5'-061722

Lab Sample ID: 880-16038-5
Matrix: Solid
Date Collected: 06/17/22 13:15
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/20/22 16:40	06/21/22 20:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/20/22 16:40	06/21/22 20:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/20/22 16:40	06/21/22 20:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/20/22 16:40	06/21/22 20:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/20/22 16:40	06/21/22 20:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/20/22 16:40	06/21/22 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 20:15*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/20/22 16:40*	*06/21/22 20:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-22-5'-061722
Date Collected: 06/17/22 13:15
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-5
Matrix: Solid

Method: 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)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:01*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		25.1		mg/Kg			06/21/22 10:02	5

Client Sample ID: SW-25-5'-061722
Date Collected: 06/17/22 13:20
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 20:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 20:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 20:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 20:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 20:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/20/22 16:40*	*06/21/22 20:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:23*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**283**		5.05		mg/Kg			06/21/22 10:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-24-5'-061722

Lab Sample ID: 880-16038-7
Matrix: Solid
Date Collected: 06/17/22 13:25
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 21:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 21:07*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/20/22 16:40*	*06/21/22 21:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**84.9**		49.8		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**84.9**		49.8		mg/Kg		06/20/22 16:19	06/21/22 07:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 16:19	06/21/22 07:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 16:19	06/21/22 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:44*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/20/22 16:19*	*06/21/22 07:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.5**		4.99		mg/Kg			06/21/22 10:39	1

Client Sample ID: SW-25-5'-061722

Lab Sample ID: 880-16038-8
Matrix: Solid
Date Collected: 06/17/22 13:30
Date Received: 06/20/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 21:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/20/22 16:40	06/21/22 21:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/20/22 16:40	06/21/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*06/20/22 16:40*	*06/21/22 21:33*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/20/22 16:40*	*06/21/22 21:33*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-25-5'-061722

Lab Sample ID: 880-16038-8
Matrix: Solid
Date Collected: 06/17/22 13:30
Date Received: 06/20/22 08:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.9**		50.0		mg/Kg			06/21/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**77.9**		50.0		mg/Kg		06/20/22 16:19	06/21/22 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 08:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/20/22 16:19*	*06/21/22 08:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/20/22 16:19*	*06/21/22 08:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		5.02		mg/Kg			06/21/22 10:48	1

Client Sample ID: SW-30-1'-062422

Lab Sample ID: 880-16307-1
Matrix: Solid
Date Collected: 06/24/22 10:00
Date Received: 06/27/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 18:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 18:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 18:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 15:21	06/28/22 18:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 18:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 15:21	06/28/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:21*	*06/28/22 18:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 14:44	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-30-1'-062422
Date Collected: 06/24/22 10:00
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-1
Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/27/22 09:56*	*06/27/22 14:44*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/27/22 09:56*	*06/27/22 14:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		25.0		mg/Kg			06/27/22 20:05	5

Client Sample ID: SW-31-1'-062422
Date Collected: 06/24/22 10:05
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 19:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 19:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 19:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 15:21	06/28/22 19:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:21	06/28/22 19:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 15:21	06/28/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/28/22 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 15:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 15:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*06/27/22 09:56*	*06/27/22 15:05*	*1*
o-Terphenyl	*125*		*70 - 130*	*06/27/22 09:56*	*06/27/22 15:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**362**		5.00		mg/Kg			06/27/22 20:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-32-1'-062422

Lab Sample ID: 880-16307-3
Matrix: Solid
Date Collected: 06/24/22 10:10
Date Received: 06/27/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 15:21	06/28/22 19:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 15:21	06/28/22 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:33*	*1*

Method: 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			06/29/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/28/22 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 16:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/27/22 09:56	06/27/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/27/22 09:56*	*06/27/22 16:21*	*1*
o-Terphenyl	*112*		*70 - 130*	*06/27/22 09:56*	*06/27/22 16:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		5.05		mg/Kg			06/27/22 20:23	1

Client Sample ID: B-27-2'-062422

Lab Sample ID: 880-16307-4
Matrix: Solid
Date Collected: 06/24/22 10:15
Date Received: 06/27/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 15:21	06/28/22 19:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 19:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 15:21	06/28/22 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:21*	*06/28/22 19:54*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-27-2'-062422

Lab Sample ID: 880-16307-4
Matrix: Solid
Date Collected: 06/24/22 10:15
Date Received: 06/27/22 08:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/29/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/28/22 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/27/22 09:56	06/27/22 16:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/27/22 09:56	06/27/22 16:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/27/22 09:56	06/27/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/27/22 09:56*	*06/27/22 16:41*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/27/22 09:56*	*06/27/22 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		4.95		mg/Kg			06/27/22 20:32	1

Client Sample ID: B-5-4-060822

Lab Sample ID: 890-2390-1
Matrix: Solid
Date Collected: 06/08/22 09:00
Date Received: 06/08/22 12:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 22:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 22:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 22:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/09/22 11:24	06/09/22 22:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 22:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/09/22 11:24	06/09/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/09/22 11:24*	*06/09/22 22:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 11:24*	*06/09/22 22:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/11/22 23:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/11/22 23:38	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-5-4-060822
Date Collected: 06/08/22 09:00
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-1
Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/11/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/10/22 08:24*	*06/11/22 23:38*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/10/22 08:24*	*06/11/22 23:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**298**		5.01		mg/Kg			06/09/22 14:25	1

Client Sample ID: B-6-4-060822
Date Collected: 06/08/22 09:10
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/09/22 11:24	06/09/22 22:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/09/22 11:24	06/09/22 22:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/09/22 11:24	06/09/22 22:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/09/22 11:24	06/09/22 22:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/09/22 11:24	06/09/22 22:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/09/22 11:24	06/09/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/09/22 11:24*	*06/09/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/09/22 11:24*	*06/09/22 22:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 23:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 23:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/10/22 08:24*	*06/11/22 23:58*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/10/22 08:24*	*06/11/22 23:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		5.00		mg/Kg			06/09/22 16:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-7-4-060822
Date Collected: 06/08/22 09:15
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/09/22 11:24	06/09/22 23:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/09/22 11:24	06/09/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:11*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:18*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.6**		5.00		mg/Kg			06/09/22 16:15	1

Client Sample ID: B-8-4-060822
Date Collected: 06/08/22 09:20
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 23:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 23:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 23:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/09/22 11:24	06/09/22 23:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/09/22 11:24	06/09/22 23:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/09/22 11:24	06/09/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-8-4-060822
Date Collected: 06/08/22 09:20
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-4
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:39*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.3**		4.99		mg/Kg			06/09/22 16:23	1

Client Sample ID: B-9-4-060822
Date Collected: 06/08/22 09:25
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 11:24	06/09/22 23:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 23:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 11:24	06/09/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/22 11:24*	*06/09/22 23:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:59	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-9-4-060822
Date Collected: 06/08/22 09:25
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-5
Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:59*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/10/22 08:24*	*06/12/22 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		5.05		mg/Kg			06/09/22 16:31	1

Client Sample ID: B-10-4-060822
Date Collected: 06/08/22 09:30
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 11:24	06/10/22 00:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/09/22 11:24	06/10/22 00:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/09/22 11:24	06/10/22 00:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/09/22 11:24	06/10/22 00:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/09/22 11:24	06/10/22 00:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/09/22 11:24	06/10/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/09/22 11:24*	*06/10/22 00:13*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 11:24*	*06/10/22 00:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/10/22 08:24*	*06/12/22 01:19*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/10/22 08:24*	*06/12/22 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		4.99		mg/Kg			06/09/22 16:54	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-11-4-060822

Date Collected: 06/08/22 10:00
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/09/22 17:00	06/09/22 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/09/22 17:00	06/09/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/09/22 17:00*	*06/09/22 18:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/22 17:00*	*06/09/22 18:07*	*1*

Method: 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			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/10/22 08:24*	*06/12/22 01:39*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/10/22 08:24*	*06/12/22 01:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		4.97		mg/Kg			06/10/22 11:13	1

Client Sample ID: B-12-4-060822

Date Collected: 06/08/22 10:05
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/09/22 17:00	06/09/22 18:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 17:00	06/09/22 18:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/09/22 17:00	06/09/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 17:00*	*06/09/22 18:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 17:00*	*06/09/22 18:27*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-12-4-060822

Date Collected: 06/08/22 10:05
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-8

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/10/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/10/22 08:24*	*06/12/22 02:20*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/10/22 08:24*	*06/12/22 02:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**283**		24.8		mg/Kg			06/09/22 17:26	5

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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)										
820-4502-A-1-B MS	Matrix Spike	118	99										
820-4502-A-1-C MSD	Matrix Spike Duplicate	111	98										
880-15608-A-6-C MS	Matrix Spike	122	95										
880-15608-A-6-D MSD	Matrix Spike Duplicate	108	106										
880-15615-1	B-1-2-5-060622	120	105										
880-15615-2	B-2-3-5-060622	110	100										
880-15615-3	B-3-3-5-060622	116	104										
880-15615-4	B-4-2-5-060622	119	108										
880-15615-5	SW-2-1.5-5-060622	109	104										
880-15615-6	SW-3-1.5-5-060622	116	104										
880-15615-7	B-13-1'-5-060622	116	106										
880-15615-8	B-14-1'-5-060622	116	89										
880-15615-9	SW-1-1-5-060622	110	97										
880-15615-9 MS	SW-1-1-5-060622	104	98										
880-15615-9 MSD	SW-1-1-5-060622	107	101										
880-15766-1	B-13-2'-060922	108	94										
880-15766-2	B-15-5'-060922	114	93										
880-15766-3	B-16-5'-060922	112	94										
880-15766-4	B-17-5'-060922	111	92										
880-15766-5	SW-4-2.5'-060922	106	89										
880-15766-6	SW-5-2.5'-060922	114	94										
880-15766-7	B-18-3.5'-061022	114	92										
880-15766-8	B-19-3.5'-061022	112	91										
880-15766-9	SW-6-1.5'-061022	113	92										
880-15766-10	SW-7-1.5'-061022	113	92										
880-15766-11	B-20-3'-061022	107	94										
880-15766-12	B-21-3'-061022	109	92										
880-15766-13	B-22-3'-061022	107	91										
880-15766-14	B-22-3'-061022	110	93										
880-15766-15	SW-8-1.5'-061022	109	93										
880-15766-16	SW-9-1.5'-061022	109	92										
880-15834-A-1-D MS	Matrix Spike	102	101										
880-15834-A-1-E MSD	Matrix Spike Duplicate	111	107										
880-15895-A-9-B MS	Matrix Spike	110	102										
880-15895-A-9-C MSD	Matrix Spike Duplicate	114	99										
880-15897-1	B-25-6'-061422	128	99										
880-15897-2	B-24-7'-061422	110	85										
880-15897-3	SW-10-3'-061422	106	97										
880-15897-4	B-26-4.5'-061422	123	92										
880-15897-5	SW-15-2.5'-061422	110	90										
880-15897-6	SW-16-2.5'-061422	109	102										
880-15967-A-1-D MS	Matrix Spike	117	95										
880-15967-A-1-E MSD	Matrix Spike Duplicate	108	98										
880-16002-1	SW-10-3.5'-061622	106	85										
880-16002-2	SW-11-3'-061622	105	86										
880-16002-3	SW-12-1.5'-061622	116	93										
880-16002-4	BG-1-10'-061622	119	90										
880-16002-5	BG-2-10'-061622	96	85										
880-16002-6	Test-1-10'-061622	95	85										

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-15615-1
Project/Site: Admiral 2H Flowline SDG: Eddy County

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16002-7	Test-2-10'-061622	138 S1+	86
880-16002-7 MS	Test-2-10'-061622	114	107
880-16002-7 MSD	Test-2-10'-061622	121	87
880-16002-A-7-C MS	Matrix Spike	114	107
880-16002-A-7-D MSD	Matrix Spike Duplicate	121	87
880-16038-1	SW-16-5'-061722	133 S1+	88
880-16038-2	SW-19-5'-061722	131 S1+	90
880-16038-3	SW-20-5'-061722	132 S1+	81
880-16038-4	SW-21-5'-061722	129	84
880-16038-5	SW-22-5'-061722	136 S1+	84
880-16038-6	SW-25-5'-061722	131 S1+	91
880-16038-7	SW-24-5'-061722	140 S1+	88
880-16038-8	SW-25-5'-061722	132 S1+	92
880-16057-A-1-C MS	Matrix Spike	111	100
880-16057-A-1-D MSD	Matrix Spike Duplicate	110	98
880-16307-1	SW-30-1'-062422	106	100
880-16307-2	SW-31-1'-062422	103	98
880-16307-3	SW-32-1'-062422	109	95
880-16307-4	B-27-2'-062422	101	100
890-2381-A-1-K MS	Matrix Spike	107	104
890-2381-A-1-L MSD	Matrix Spike Duplicate	103	102
890-2390-1	B-5-4-060822	111	95
890-2390-2	B-6-4-060822	110	102
890-2390-3	B-7-4-060822	110	103
890-2390-4	B-8-4-060822	110	93
890-2390-5	B-9-4-060822	114	97
890-2390-6	B-10-4-060822	117	103
890-2390-7	B-11-4-060822	107	97
890-2390-8	B-12-4-060822	105	93
890-2464-A-41-F MS	Matrix Spike	102	96
890-2464-A-41-F MSD	Matrix Spike Duplicate	97	99
LCS 880-27132/1-A	Lab Control Sample	108	105
LCS 880-27134/1-A	Lab Control Sample	103	102
LCS 880-27164/1-A	Lab Control Sample	111	104
LCS 880-27169/1-A	Lab Control Sample	104	99
LCS 880-27628/1-A	Lab Control Sample	109	115
LCS 880-27713/1-A	Lab Control Sample	109	97
LCS 880-27794/1-A	Lab Control Sample	116	105
LCS 880-27986/1-A	Lab Control Sample	109	99
LCS 880-27988/1-A	Lab Control Sample	125	98
LCS 880-28059/1-A	Lab Control Sample	110	100
LCS 880-28487/1-A	Lab Control Sample	93	96
LCSD 880-27132/2-A	Lab Control Sample Dup	105	100
LCSD 880-27134/2-A	Lab Control Sample Dup	103	101
LCSD 880-27164/2-A	Lab Control Sample Dup	102	103
LCSD 880-27169/2-A	Lab Control Sample Dup	109	95
LCSD 880-27628/2-A	Lab Control Sample Dup	114	97
LCSD 880-27713/2-A	Lab Control Sample Dup	105	95
LCSD 880-27794/2-A	Lab Control Sample Dup	108	98
LCSD 880-27986/2-A	Lab Control Sample Dup	109	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-15615-1
Project/Site: Admiral 2H Flowline SDG: Eddy County

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCSD 880-27988/2-A	Lab Control Sample Dup	126	95
LCSD 880-28059/2-A	Lab Control Sample Dup	111	101
LCSD 880-28487/2-A	Lab Control Sample Dup	101	101
MB 880-27132/5-A	Method Blank	82	0.04 S1-
MB 880-27134/5-A	Method Blank	99	98
MB 880-27164/5-A	Method Blank	100	91
MB 880-27169/5-A	Method Blank	98	97
MB 880-27628/5-A	Method Blank	84	92
MB 880-27713/5-A	Method Blank	103	88
MB 880-27772/5-A	Method Blank	103	87
MB 880-27794/5-A	Method Blank	90	90
MB 880-27819/5-A	Method Blank	86	89
MB 880-27986/5-A	Method Blank	101	90
MB 880-27988/5-A	Method Blank	100	87
MB 880-28059/5-A	Method Blank	100	87
MB 880-28487/5-A	Method Blank	100	98

Surrogate Legend

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

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		
880-15766-1 MS	B-13-2'-060922		
880-15766-1 MSD	B-13-2'-060922		

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)
880-15615-1	B-1-2-5-060622	104	104
880-15615-2	B-2-3-5-060622	101	102
880-15615-3	B-3-3-5-060622	93	90
880-15615-4	B-4-2-5-060622	107	110
880-15615-5	SW-2-1.5-5-060622	96	91
880-15615-6	SW-3-1.5-5-060622	103	103
880-15615-7	B-13-1'-5-060622	107	108
880-15615-8	B-14-1'-5-060622	102	101
880-15615-9	SW-1-1-5-060622	110	108
880-15766-1	B-13-2'-060922	110	124
880-15766-1 MS	B-13-2'-060922	110	106
880-15766-1 MSD	B-13-2'-060922	111	109

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-15615-1
Project/Site: Admiral 2H Flowline SDG: Eddy County

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)								
880-15766-2	B-15-5'-060922	110	122								
880-15766-3	B-16-5'-060922	98	115								
880-15766-4	B-17-5'-060922	110	123								
880-15766-5	SW-4-2.5'-060922	87	92								
880-15766-5 MS	SW-4-2.5'-060922	86	75								
880-15766-5 MSD	SW-4-2.5'-060922	85	73								
880-15766-6	SW-5-2.5'-060922	94	100								
880-15766-7	B-18-3.5'-061022	91	97								
880-15766-8	B-19-3.5'-061022	90	98								
880-15766-9	SW-6-1.5'-061022	94	100								
880-15766-10	SW-7-1.5'-061022	124	113								
880-15766-10 MS	SW-7-1.5'-061022	119	102								
880-15766-10 MSD	SW-7-1.5'-061022	119	102								
880-15766-11	B-20-3'-061022	123	114								
880-15766-12	B-21-3'-061022	112	104								
880-15766-13	B-22-3'-061022	128	119								
880-15766-14	B-22-3'-061022	94	98								
880-15766-14 MS	B-22-3'-061022	73	67 S1-								
880-15766-14 MSD	B-22-3'-061022	71	65 S1-								
880-15766-15	SW-8-1.5'-061022	80	87								
880-15766-16	SW-9-1.5'-061022	72	77								
880-15897-1	B-25-6'-061422	90	105								
880-15897-1 MS	B-25-6'-061422	90	88								
880-15897-1 MSD	B-25-6'-061422	92	90								
880-15897-2	B-24-7'-061422	85	102								
880-15897-3	SW-10-3'-061422	89	106								
880-15897-4	B-26-4.5'-061422	93	109								
880-15897-5	SW-15-2.5'-061422	87	101								
880-15897-6	SW-16-2.5'-061422	88	106								
880-16002-1	SW-10-3.5'-061622	74	0.3 S1-								
880-16002-1 MS	SW-10-3.5'-061622	78	70								
880-16002-1 MSD	SW-10-3.5'-061622	79	70								
880-16002-2	SW-11-3'-061622	82	90								
880-16002-3	SW-12-1.5'-061622	85	90								
880-16002-4	BG-1-10'-061622	93	107								
880-16002-5	BG-2-10'-061622	90	99								
880-16002-5 MS	BG-2-10'-061622	82	81								
880-16002-5 MSD	BG-2-10'-061622	92	88								
880-16002-6	Test-1-10'-061622	88	94								
880-16002-7	Test-2-10'-061622	88	97								
880-16038-1	SW-16-5'-061722	122	129								
880-16038-2	SW-19-5'-061722	98	103								
880-16038-3	SW-20-5'-061722	111	115								
880-16038-4	SW-21-5'-061722	95	97								
880-16038-5	SW-22-5'-061722	82	82								
880-16038-6	SW-25-5'-061722	101	101								
880-16038-7	SW-24-5'-061722	92	93								
880-16038-8	SW-25-5'-061722	90	92								
880-16307-1	SW-30-1'-062422	115	128								
880-16307-2	SW-31-1'-062422	113	125								

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-15615-1
Project/Site: Admiral 2H Flowline SDG: Eddy County

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)
880-16307-3	SW-32-1'-062422	105	112
880-16307-4	B-27-2'-062422	110	117
890-2380-A-1-D MS	Matrix Spike	95	82
890-2380-A-1-E MSD	Matrix Spike Duplicate	101	89
890-2388-A-61-I MS	Matrix Spike	93	90
890-2388-A-61-J MSD	Matrix Spike Duplicate	82	80
890-2390-1	B-5-4-060822	83	83
890-2390-2	B-6-4-060822	84	88
890-2390-3	B-7-4-060822	83	88
890-2390-4	B-8-4-060822	83	89
890-2390-5	B-9-4-060822	84	90
890-2390-6	B-10-4-060822	83	84
890-2390-7	B-11-4-060822	79	78
890-2390-8	B-12-4-060822	92	97
890-2457-A-1-C MS	Matrix Spike	110	111
890-2457-A-1-D MSD	Matrix Spike Duplicate	98	102
LCS 880-27115/2-A	Lab Control Sample	118	109
LCS 880-27248/2-A	Lab Control Sample	99	104
LCS 880-27379/2-A	Lab Control Sample	140 S1+	151 S1+
LCS 880-27380/2-A	Lab Control Sample	109	109
LCS 880-27382/2-A	Lab Control Sample	136 S1+	130
LCS 880-27383/2-A	Lab Control Sample	111	117
LCS 880-27626/2-A	Lab Control Sample	101	111
LCS 880-27745/2-A	Lab Control Sample	90	93
LCS 880-27746/2-A	Lab Control Sample	95	86
LCS 880-28434/2-A	Lab Control Sample	92	102
LCSD 880-27115/3-A	Lab Control Sample Dup	106	99
LCSD 880-27248/3-A	Lab Control Sample Dup	93	96
LCSD 880-27379/3-A	Lab Control Sample Dup	126	132 S1+
LCSD 880-27380/3-A	Lab Control Sample Dup	111	108
LCSD 880-27382/3-A	Lab Control Sample Dup	154 S1+	145 S1+
LCSD 880-27383/3-A	Lab Control Sample Dup	111	115
LCSD 880-27626/3-A	Lab Control Sample Dup	107	121
LCSD 880-27745/3-A	Lab Control Sample Dup	110	116
LCSD 880-27746/3-A	Lab Control Sample Dup	98	9 S1-
LCSD 880-28434/3-A	Lab Control Sample Dup	92	102
MB 880-27115/1-A	Method Blank	95	98
MB 880-27248/1-A	Method Blank	91	102
MB 880-27379/1-A	Method Blank	100	118
MB 880-27380/1-A	Method Blank	81	90
MB 880-27382/1-A	Method Blank	120	116
MB 880-27383/1-A	Method Blank	88	96
MB 880-27626/1-A	Method Blank	107	128
MB 880-27745/1-A	Method Blank	95	107
MB 880-27746/1-A	Method Blank	96	109
MB 880-28434/1-A	Method Blank	112	132 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27132/5-A
Matrix: Solid
Analysis Batch: 27214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/09/22 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*06/09/22 08:48*	*06/09/22 19:11*	*1*
1,4-Difluorobenzene (Surr)	*0.04*	*S1-*	*70 - 130*	*06/09/22 08:48*	*06/09/22 19:11*	*1*

Lab Sample ID: LCS 880-27132/1-A
Matrix: Solid
Analysis Batch: 27214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27132

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	0.09949		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-27132/2-A
Matrix: Solid
Analysis Batch: 27214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09115		mg/Kg		91	70 - 130	13	35
Toluene	0.100	0.08991		mg/Kg		90	70 - 130	10	35
Ethylbenzene	0.100	0.09402		mg/Kg		94	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1843		mg/Kg		92	70 - 130	10	35
o-Xylene	0.100	0.09340		mg/Kg		93	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 820-4502-A-1-B MS
Matrix: Solid
Analysis Batch: 27214

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0106	F1	0.100	0.07745	F1	mg/Kg		67	70 - 130
Toluene	0.128	F1	0.100	0.1508	F1	mg/Kg		23	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 820-4502-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27214 — **Prep Batch: 27132**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0492	F1 F2	0.100	0.06368	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	0.0374	F1 F2	0.201	0.06816	F1	mg/Kg		15	70 - 130
o-Xylene	0.0117	F1 F2	0.100	0.02815	F1	mg/Kg		16	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 820-4502-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27214 — **Prep Batch: 27132**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0106	F1	0.100	0.08645		mg/Kg		76	70 - 130	11	35
Toluene	0.128	F1	0.100	0.1647	F1	mg/Kg		37	70 - 130	9	35
Ethylbenzene	0.0492	F1 F2	0.100	0.09862	F1 F2	mg/Kg		49	70 - 130	43	35
m-Xylene & p-Xylene	0.0374	F1 F2	0.200	0.1447	F1 F2	mg/Kg		54	70 - 130	72	35
o-Xylene	0.0117	F1 F2	0.100	0.07040	F1 F2	mg/Kg		59	70 - 130	86	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-27134/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27183 — **Prep Batch: 27134**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:57	06/10/22 04:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:57	06/10/22 04:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:57	06/10/22 04:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 08:57	06/10/22 04:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:57	06/10/22 04:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 08:57	06/10/22 04:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/09/22 08:57*	*06/10/22 04:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/09/22 08:57*	*06/10/22 04:04*	*1*

Lab Sample ID: LCS 880-27134/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27183 — **Prep Batch: 27134**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09129		mg/Kg		91	70 - 130
Toluene	0.100	0.09217		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08555		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1933		mg/Kg		97	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27134/1-A
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27134

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09643		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-27134/2-A
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27134

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08533		mg/Kg		85	70 - 130	7	35
Toluene			0.100	0.08782		mg/Kg		88	70 - 130	5	35
Ethylbenzene			0.100	0.08140		mg/Kg		81	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1850		mg/Kg		93	70 - 130	4	35
o-Xylene			0.100	0.09262		mg/Kg		93	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-15615-9 MS
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: SW-1-1-5-060622
Prep Type: Total/NA
Prep Batch: 27134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.101	0.06796	F1	mg/Kg		68	70 - 130		
Toluene	<0.00199	U	0.101	0.07233		mg/Kg		72	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.06648	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1513		mg/Kg		75	70 - 130		
o-Xylene	<0.00199	U	0.101	0.07547		mg/Kg		75	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-15615-9 MSD
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: SW-1-1-5-060622
Prep Type: Total/NA
Prep Batch: 27134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.08403		mg/Kg		84	70 - 130	21	35
Toluene	<0.00199	U	0.100	0.08167		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00199	U F1	0.100	0.07311		mg/Kg		73	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1647		mg/Kg		82	70 - 130	9	35
o-Xylene	<0.00199	U	0.100	0.08261		mg/Kg		82	70 - 130	9	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15615-9 MSD
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: SW-1-1-5-060622
Prep Type: Total/NA
Prep Batch: 27134

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-27164/5-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 10:05	06/09/22 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/09/22 10:05	06/09/22 12:16	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/09/22 10:05	06/09/22 12:16	1

Lab Sample ID: LCS 880-27164/1-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1125		mg/Kg		112	70 - 130		
Toluene			0.100	0.1094		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1137		mg/Kg		114	70 - 130		
m-Xylene & p-Xylene			0.200	0.2276		mg/Kg		114	70 - 130		
o-Xylene			0.100	0.1160		mg/Kg		116	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-27164/2-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27164

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09839		mg/Kg		98	70 - 130	13	35
Toluene			0.100	0.09249		mg/Kg		92	70 - 130	17	35
Ethylbenzene			0.100	0.09674		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.1944		mg/Kg		97	70 - 130	16	35
o-Xylene			0.100	0.09787		mg/Kg		98	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-27164/2-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27164

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

Lab Sample ID: 880-15608-A-6-C MS
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09163		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.0998	0.1028		mg/Kg		102	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1103		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2272		mg/Kg		114	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1163		mg/Kg		116	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-15608-A-6-D MSD
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1057		mg/Kg		105	70 - 130	14	35
Toluene	<0.00200	U	0.100	0.09801		mg/Kg		97	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.1032		mg/Kg		103	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2077		mg/Kg		104	70 - 130	9	35
o-Xylene	<0.00200	U	0.100	0.1026		mg/Kg		102	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-27169/5-A
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 16:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 11:24	06/09/22 16:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 11:24	06/09/22 16:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/09/22 11:24	06/09/22 16:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/09/22 11:24	06/09/22 16:24	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27169/1-A
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27169

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08701		mg/Kg		87	70 - 130		
Toluene			0.100	0.09313		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.08725		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1998		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09882		mg/Kg		99	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 880-27169/2-A
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27169

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08058		mg/Kg		81	70 - 130	8	35
Toluene			0.100	0.08864		mg/Kg		89	70 - 130	5	35
Ethylbenzene			0.100	0.08534		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1981		mg/Kg		99	70 - 130	1	35
o-Xylene			0.100	0.09984		mg/Kg		100	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-2381-A-1-K MS
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1070		mg/Kg		106	70 - 130		
Toluene	<0.00199	U	0.101	0.1057		mg/Kg		105	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.09944		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2272		mg/Kg		113	70 - 130		
o-Xylene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2381-A-1-L MSD
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.09863		mg/Kg		99	70 - 130	8	35
Toluene	<0.00199	U	0.0996	0.09833		mg/Kg		99	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.0996	0.09226		mg/Kg		93	70 - 130	7	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 890-2381-A-1-L MSD
Matrix: Solid
Analysis Batch: 27183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.1033		mg/Kg		104	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-27628/5-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/15/22 16:00	06/17/22 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/15/22 16:00	06/17/22 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/15/22 16:00	06/17/22 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/15/22 16:00	06/17/22 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/15/22 16:00	06/17/22 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/15/22 16:00	06/17/22 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*06/15/22 16:00*	*06/17/22 11:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/15/22 16:00*	*06/17/22 11:44*	*1*

Lab Sample ID: LCS 880-27628/1-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1100		mg/Kg		110	70 - 130
Toluene	0.100	0.1021		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2089		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-27628/2-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09988		mg/Kg		100	70 - 130	10	35
Toluene	0.100	0.1025		mg/Kg		103	70 - 130	0	35
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2151		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	2	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-15895-A-9-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27741 — **Prep Batch: 27628**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08470		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.0998	0.07795		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08138		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1599		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.07954		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-15895-A-9-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27741 — **Prep Batch: 27628**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.07761		mg/Kg		78	70 - 130	9	35
Toluene	<0.00199	U	0.0994	0.07082		mg/Kg		71	70 - 130	10	35
Ethylbenzene	<0.00199	U	0.0994	0.06921		mg/Kg		70	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1348	F1	mg/Kg		68	70 - 130	17	35
o-Xylene	<0.00199	U F1	0.0994	0.06733	F1	mg/Kg		68	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-27713/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27743 — **Prep Batch: 27713**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/16/22 15:05	06/18/22 08:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/22 15:05	06/18/22 08:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/16/22 15:05	06/18/22 08:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/16/22 15:05	06/18/22 08:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/16/22 15:05	06/18/22 08:07	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27713/1-A
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09627		mg/Kg		96	70 - 130		
Toluene			0.100	0.09530		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09990		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2057		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-27713/2-A
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27713

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09275		mg/Kg		93	70 - 130	4	35
Toluene			0.100	0.09197		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09338		mg/Kg		93	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1914		mg/Kg		96	70 - 130	7	35
o-Xylene			0.100	0.09725		mg/Kg		97	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-15766-1 MS
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.08559		mg/Kg					
Toluene	<0.00200	U	0.0998	0.08542		mg/Kg					
Ethylbenzene	<0.00200	U	0.0998	0.08677		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1770		mg/Kg					
o-Xylene	<0.00200	U	0.0998	0.08941		mg/Kg					

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 880-15766-1 MSD
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09179		mg/Kg					
Toluene	<0.00200	U	0.0996	0.08863		mg/Kg					
Ethylbenzene	<0.00200	U	0.0996	0.09115		mg/Kg					

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15766-1 MSD
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1852		mg/Kg					
o-Xylene	<0.00200	U	0.0996	0.09284		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-27772/5-A
Matrix: Solid
Analysis Batch: 27743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:32	06/17/22 21:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/17/22 09:32	06/17/22 21:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:32	06/17/22 21:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/17/22 09:32	06/17/22 21:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/17/22 09:32*	*06/17/22 21:31*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/17/22 09:32*	*06/17/22 21:31*	*1*

Lab Sample ID: MB 880-27794/5-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 15:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/17/22 09:57	06/18/22 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/17/22 09:57	06/18/22 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/17/22 09:57*	*06/18/22 15:03*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/17/22 09:57*	*06/18/22 15:03*	*1*

Lab Sample ID: LCS 880-27794/1-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09413		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09899		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27794/1-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09911		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-27794/2-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27794

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08561		mg/Kg		86	70 - 130	20	35
Toluene			0.100	0.08698		mg/Kg		87	70 - 130	8	35
Ethylbenzene			0.100	0.09292		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1847		mg/Kg		92	70 - 130	5	35
o-Xylene			0.100	0.09227		mg/Kg		92	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-15834-A-1-D MS
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.08785		mg/Kg		88	70 - 130		
Toluene	<0.00200	U	0.0996	0.07880		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.08633		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1695		mg/Kg		85	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.08294		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-15834-A-1-E MSD
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08979		mg/Kg		90	70 - 130	2	35
Toluene	<0.00200	U	0.0994	0.07876		mg/Kg		79	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0994	0.07983		mg/Kg		80	70 - 130	8	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1594		mg/Kg		80	70 - 130	6	35
o-Xylene	<0.00200	U	0.0994	0.07957		mg/Kg		80	70 - 130	4	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15834-A-1-E MSD
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27794

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-27819/5-A
Matrix: Solid
Analysis Batch: 27741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Toluene	<0.000400	U	0.000400		mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		06/17/22 13:00	06/18/22 01:15	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		06/17/22 13:00	06/18/22 01:15	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		06/17/22 13:00	06/18/22 01:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/17/22 13:00	06/18/22 01:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/17/22 13:00	06/18/22 01:15	1

Lab Sample ID: MB 880-27986/5-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 16:31	06/21/22 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/20/22 16:31	06/21/22 12:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/20/22 16:31	06/21/22 12:20	1

Lab Sample ID: LCS 880-27986/1-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.1036		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1095		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2214		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27986/1-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27986

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-27986/2-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27986

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1081		mg/Kg		108	70 - 130	2	35
Toluene			0.100	0.1076		mg/Kg		108	70 - 130	4	35
Ethylbenzene			0.100	0.1125		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2307		mg/Kg		115	70 - 130	4	35
o-Xylene			0.100	0.1162		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-15967-A-1-D MS
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.09619		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.100	0.1013		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2176		mg/Kg		109	70 - 130
o-Xylene	<0.00199	U	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-15967-A-1-E MSD
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.1046		mg/Kg		105	70 - 130	8	35
Toluene	<0.00199	U	0.0996	0.1013		mg/Kg		102	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0996	0.1027		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2104		mg/Kg		106	70 - 130	3	35
o-Xylene	<0.00199	U	0.0996	0.1053		mg/Kg		106	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: MB 880-27988/5-A
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/20/22 16:40*	*06/21/22 13:16*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/20/22 16:40*	*06/21/22 13:16*	*1*

Lab Sample ID: LCS 880-27988/1-A
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1027		mg/Kg		103	70 - 130
Toluene	0.100	0.1058		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1125		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2199		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-27988/2-A
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	1	35
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	0	35
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-16002-7 MS
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Test-2-10'-061622
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09847		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.08190		mg/Kg		82	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-16002-7 MS
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Test-2-10'-061622
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09510		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1894		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09376		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-16002-7 MSD
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Test-2-10'-061622
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07905		mg/Kg		80	70 - 130	22	35
Toluene	<0.00200	U	0.0994	0.08287		mg/Kg		83	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.08613		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1725		mg/Kg		87	70 - 130	9	35
o-Xylene	<0.00200	U	0.0994	0.08491		mg/Kg		85	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-16002-A-7-C MS
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09847		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.08190		mg/Kg		82	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09510		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1894		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09376		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-16002-A-7-D MSD
Matrix: Solid
Analysis Batch: 28002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07905		mg/Kg		80	70 - 130	22	35
Toluene	<0.00200	U	0.0994	0.08287		mg/Kg		83	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.08613		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1725		mg/Kg		87	70 - 130	9	35
o-Xylene	<0.00200	U	0.0994	0.08491		mg/Kg		85	70 - 130	10	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-28059/5-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 22:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/21/22 14:16	06/21/22 22:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/21/22 14:16	06/21/22 22:56	1

Lab Sample ID: LCS 880-28059/1-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1176		mg/Kg		118	70 - 130
Toluene	0.100	0.1133		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1180		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2431		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130

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

Lab Sample ID: LCSD 880-28059/2-A
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1121		mg/Kg		112	70 - 130	5	35
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	6	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2303		mg/Kg		115	70 - 130	5	35
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-16057-A-1-C MS
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09167		mg/Kg		91	70 - 130
Toluene	<0.00199	U	0.0998	0.08933		mg/Kg		89	70 - 130
Ethylbenzene	0.00366		0.0998	0.09441		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.00472		0.200	0.1932		mg/Kg		94	70 - 130
o-Xylene	0.00213		0.0998	0.09623		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-16057-A-1-D MSD
Matrix: Solid
Analysis Batch: 28004

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.09129		mg/Kg		91	70 - 130	0	35
Toluene	<0.00199	U	0.0994	0.08952		mg/Kg		90	70 - 130	0	35
Ethylbenzene	0.00366		0.0994	0.09432		mg/Kg		91	70 - 130	0	35
m-Xylene & p-Xylene	0.00472		0.199	0.1929		mg/Kg		95	70 - 130	0	35
o-Xylene	0.00213		0.0994	0.09636		mg/Kg		95	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-28487/5-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:21	06/28/22 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/27/22 15:21	06/28/22 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:21*	*06/28/22 11:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:21*	*06/28/22 11:26*	*1*

Lab Sample ID: LCS 880-28487/1-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08540		mg/Kg		85	70 - 130
Toluene	0.100	0.09715		mg/Kg		97	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-28487/1-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.08690		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09957		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-28487/2-A
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28487

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09767		mg/Kg		98	70 - 130	13	35
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	6	35
Ethylbenzene	0.100	0.09156		mg/Kg		92	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1849		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 890-2464-A-41-F MS
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28487

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2464-A-41-F MSD
Matrix: Solid
Analysis Batch: 28499

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28487

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-27115/1-A
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 10:28	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: MB 880-27115/1-A
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:15	06/09/22 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/08/22 17:15*	*06/09/22 10:28*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/08/22 17:15*	*06/09/22 10:28*	*1*

Lab Sample ID: LCS 880-27115/2-A
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1128		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-27115/3-A
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27115

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	928.0		mg/Kg		93	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1017		mg/Kg		102	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 890-2380-A-1-D MS
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27115

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	997	869.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	783.0		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 890-2380-A-1-E MSD
Matrix: Solid
Analysis Batch: 27121

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27115

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	1000	1012		mg/Kg		97	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	855.9		mg/Kg		84	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: MB 880-27248/1-A
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/10/22 08:24*	*06/11/22 20:47*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/10/22 08:24*	*06/11/22 20:47*	*1*

Lab Sample ID: LCS 880-27248/2-A
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1113		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-27248/3-A
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	938.2		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130	5	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-27248/3-A
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27248

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-2388-A-61-I MS
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27248

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 F2 F1	997	1007		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	817.8		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 890-2388-A-61-J MSD
Matrix: Solid
Analysis Batch: 27332

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27248

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 F2 F1	1000	2753	F1 F2	mg/Kg		271	70 - 130	93	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	703.5		mg/Kg		70	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: MB 880-27379/1-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 11:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/13/22 09:28*	*06/13/22 11:29*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/13/22 09:28*	*06/13/22 11:29*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27379/2-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27379

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1128		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1452	*+	mg/Kg		145	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*151*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-27379/3-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1151		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1407	*+	mg/Kg		141	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: 880-15766-1 MS
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27379

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	998	1254		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1208		mg/Kg		121	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: 880-15766-1 MSD
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1255		mg/Kg		126	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1273		mg/Kg		127	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15766-1 MSD
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: B-13-2'-060922
Prep Type: Total/NA
Prep Batch: 27379

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: MB 880-27380/1-A
Matrix: Solid
Analysis Batch: 27353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:31	06/13/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/13/22 09:31*	*06/13/22 11:29*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/13/22 09:31*	*06/13/22 11:29*	*1*

Lab Sample ID: LCS 880-27380/2-A
Matrix: Solid
Analysis Batch: 27353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27380

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	919.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1264		mg/Kg		126	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-27380/3-A
Matrix: Solid
Analysis Batch: 27353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27380

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	906.0		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1272		mg/Kg		127	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15766-5 MS
Matrix: Solid
Analysis Batch: 27353

Client Sample ID: SW-4-2.5'-060922
Prep Type: Total/NA
Prep Batch: 27380

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	998	994.4		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1129		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 880-15766-5 MSD
Matrix: Solid
Analysis Batch: 27353

Client Sample ID: SW-4-2.5'-060922
Prep Type: Total/NA
Prep Batch: 27380

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	860.4		mg/Kg		84	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1115		mg/Kg		110	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-27382/1-A
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 11:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 11:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:34	06/13/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*06/13/22 09:34*	*06/13/22 11:03*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/13/22 09:34*	*06/13/22 11:03*	*1*

Lab Sample ID: LCS 880-27382/2-A
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	942.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-27382/2-A
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27382

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-27382/3-A
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27382

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1190		mg/Kg		119	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	154	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: 880-15766-10 MS
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: SW-7-1.5'-061022
Prep Type: Total/NA
Prep Batch: 27382

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	1522	F1	mg/Kg		152	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1374	F1	mg/Kg		136	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-15766-10 MSD
Matrix: Solid
Analysis Batch: 27355

Client Sample ID: SW-7-1.5'-061022
Prep Type: Total/NA
Prep Batch: 27382

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	999	1530	F1	mg/Kg		153	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1391	F1	mg/Kg		138	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: MB 880-27383/1-A
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 11:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 11:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:36	06/13/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/13/22 09:36*	*06/13/22 11:03*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/13/22 09:36*	*06/13/22 11:03*	*1*

Lab Sample ID: LCS 880-27383/2-A
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1089		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	902.8		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-27383/3-A
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27383

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1129		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	916.3		mg/Kg		92	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: 880-15766-14 MS
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: B-22-3'-061022
Prep Type: Total/NA
Prep Batch: 27383

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	998	1162		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	848.7		mg/Kg		83	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-15766-14 MS
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: B-22-3'-061022
Prep Type: Total/NA
Prep Batch: 27383

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

Lab Sample ID: 880-15766-14 MSD
Matrix: Solid
Analysis Batch: 27357

Client Sample ID: B-22-3'-061022
Prep Type: Total/NA
Prep Batch: 27383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	958.7		mg/Kg		94	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	829.6		mg/Kg		81	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*71*		*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-27626/1-A
Matrix: Solid
Analysis Batch: 27563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 21:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 21:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/15/22 15:05	06/15/22 21:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/15/22 15:05*	*06/15/22 21:18*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/15/22 15:05*	*06/15/22 21:18*	*1*

Lab Sample ID: LCS 880-27626/2-A
Matrix: Solid
Analysis Batch: 27563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	939.7		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1072		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-27626/3-A
Matrix: Solid
Analysis Batch: 27563

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27626

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	977.4		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1174		mg/Kg		117	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: 880-15897-1 MS
Matrix: Solid
Analysis Batch: 27563

Client Sample ID: B-25-6'-061422
Prep Type: Total/NA
Prep Batch: 27626

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	998	931.5		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	876.7		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-15897-1 MSD
Matrix: Solid
Analysis Batch: 27563

Client Sample ID: B-25-6'-061422
Prep Type: Total/NA
Prep Batch: 27626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	955.9		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	908.4		mg/Kg		91	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: MB 880-27745/1-A
Matrix: Solid
Analysis Batch: 27737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/17/22 08:09	06/17/22 11:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/22 08:09	06/17/22 11:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/22 08:09	06/17/22 11:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: MB 880-27745/1-A
Matrix: Solid
Analysis Batch: 27737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27745

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	06/17/22 08:09	06/17/22 11:39	1
o-Terphenyl	107		70 - 130	06/17/22 08:09	06/17/22 11:39	1

Lab Sample ID: LCS 880-27745/2-A
Matrix: Solid
Analysis Batch: 27737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27745

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	747.9		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	827.4		mg/Kg		83	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-27745/3-A
Matrix: Solid
Analysis Batch: 27737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27745

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1165	*1	mg/Kg		117	70 - 130	44	20
Diesel Range Organics (Over C10-C28)			1000	978.1		mg/Kg		98	70 - 130	17	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 880-16002-5 MS
Matrix: Solid
Analysis Batch: 27737

Client Sample ID: BG-2-10'-061622
Prep Type: Total/NA
Prep Batch: 27745

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 *1	998	756.7		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	668.6	F1	mg/Kg		63	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 880-16002-5 MSD — **Client Sample ID: BG-2-10'-061622**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27737 — **Prep Batch: 27745**

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 *1	999	888.7		mg/Kg		89	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	726.8	F1	mg/Kg		68	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: MB 880-27746/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27735 — **Prep Batch: 27746**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/17/22 08:10	06/17/22 11:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/22 08:10	06/17/22 11:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/22 08:10	06/17/22 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/17/22 08:10*	*06/17/22 11:39*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/17/22 08:10*	*06/17/22 11:39*	*1*

Lab Sample ID: LCS 880-27746/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27735 — **Prep Batch: 27746**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	748.9		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.7		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: LCSD 880-27746/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27735 — **Prep Batch: 27746**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.9	*1	mg/Kg		95	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130	8	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-27746/3-A
Matrix: Solid
Analysis Batch: 27735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27746

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*9*	*S1-*	*70 - 130*

Lab Sample ID: 880-16002-1 MS
Matrix: Solid
Analysis Batch: 27735

Client Sample ID: SW-10-3.5'-061622
Prep Type: Total/NA
Prep Batch: 27746

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 *1	998	1011		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	136		998	839.0		mg/Kg		70	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: 880-16002-1 MSD
Matrix: Solid
Analysis Batch: 27735

Client Sample ID: SW-10-3.5'-061622
Prep Type: Total/NA
Prep Batch: 27746

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 *1	999	1030		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	136		999	855.7		mg/Kg		72	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: MB 880-28434/1-A
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 11:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 11:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/27/22 09:56	06/27/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/27/22 09:56*	*06/27/22 11:13*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*06/27/22 09:56*	*06/27/22 11:13*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-28434/2-A
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	734.8		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	941.1		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-28434/3-A
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28434

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	729.1		mg/Kg		73	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	937.8		mg/Kg		94	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 890-2457-A-1-C MS
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28434

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 F2	996	1028		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	882.3		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-2457-A-1-D MSD
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28434

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 F2	996	836.1	F2	mg/Kg		84	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	833.7		mg/Kg		84	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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

Lab Sample ID: 890-2457-A-1-D MSD
Matrix: Solid
Analysis Batch: 28413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28434

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	102		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27084/1-A
Matrix: Solid
Analysis Batch: 27100

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/08/22 13:25	1

Lab Sample ID: LCS 880-27084/2-A
Matrix: Solid
Analysis Batch: 27100

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-27084/3-A
Matrix: Solid
Analysis Batch: 27100

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	246.9		mg/Kg					

Lab Sample ID: 880-15615-1 MS
Matrix: Solid
Analysis Batch: 27100

Client Sample ID: B-1-2-5-060622
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	315		248	544.3		mg/Kg		93	90 - 110		

Lab Sample ID: 880-15615-1 MSD
Matrix: Solid
Analysis Batch: 27100

Client Sample ID: B-1-2-5-060622
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	315		248	544.4		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-27168/1-A
Matrix: Solid
Analysis Batch: 27202

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/09/22 13:22	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-27168/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27202

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.0		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-27168/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27202

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-2390-5 MS — **Client Sample ID: B-9-4-060822**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	145		253	390.6		mg/Kg		97	90 - 110		

Lab Sample ID: 890-2390-5 MSD — **Client Sample ID: B-9-4-060822**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	145		253	391.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-27399/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/13/22 14:22	1

Lab Sample ID: LCS 880-27399/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27453

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.0		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-27399/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.2		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-15770-A-11-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5110		4990	10010		mg/Kg		98	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-15770-A-11-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5110		4990	10040		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-27401/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/13/22 14:49	1

Lab Sample ID: LCS 880-27401/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.4		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-27401/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-15766-7 MS — **Client Sample ID: B-18-3.5'-061022**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	323		253	578.4		mg/Kg		101	90 - 110		

Lab Sample ID: 880-15766-7 MSD — **Client Sample ID: B-18-3.5'-061022**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27454

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	323		253	566.7		mg/Kg		97	90 - 110	2	20

Lab Sample ID: MB 880-27617/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/15/22 18:37	1

Lab Sample ID: LCS 880-27617/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.3		mg/Kg		101	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-27617/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.1		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-15894-A-3-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.9		248	254.1		mg/Kg		96	90 - 110

Lab Sample ID: 880-15894-A-3-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.9		248	254.3		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-27799/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/17/22 11:36	1

Lab Sample ID: LCS 880-27799/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	234.2		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-27799/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.5		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-16002-1 MS — **Client Sample ID: SW-10-3.5'-061622**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	70.3		248	295.1		mg/Kg		91	90 - 110

Lab Sample ID: 880-16002-1 MSD — **Client Sample ID: SW-10-3.5'-061622**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70.3		248	296.6		mg/Kg		91	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27952/1-A
Matrix: Solid
Analysis Batch: 28021

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/21/22 08:39	1

Lab Sample ID: LCS 880-27952/2-A
Matrix: Solid
Analysis Batch: 28021

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-27952/3-A
Matrix: Solid
Analysis Batch: 28021

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	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-16038-1 MS
Matrix: Solid
Analysis Batch: 28021

Client Sample ID: SW-16-5'-061722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	51.5		249	294.6		mg/Kg		98	90 - 110		

Lab Sample ID: 880-16038-1 MSD
Matrix: Solid
Analysis Batch: 28021

Client Sample ID: SW-16-5'-061722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51.5		249	294.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-28432/1-A
Matrix: Solid
Analysis Batch: 28534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/27/22 15:55	1

Lab Sample ID: LCS 880-28432/2-A
Matrix: Solid
Analysis Batch: 28534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.2		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-28432/3-A
Matrix: Solid
Analysis Batch: 28534

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	261.0		mg/Kg		104	90 - 110	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-16244-A-11-F MS
Matrix: Solid
Analysis Batch: 28534

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2640		1250	3995		mg/Kg		109	90 - 110		

Lab Sample ID: 880-16244-A-11-G MSD
Matrix: Solid
Analysis Batch: 28534

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2640		1250	3997		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA

Prep Batch: 27132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	5035	
880-15615-2	B-2-3-5-060622	Total/NA	Solid	5035	
880-15615-3	B-3-3-5-060622	Total/NA	Solid	5035	
880-15615-4	B-4-2-5-060622	Total/NA	Solid	5035	
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	5035	
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	5035	
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	5035	
MB 880-27132/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27132/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27132/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4502-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
820-4502-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	5035	
MB 880-27134/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27134/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27134/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15615-9 MS	SW-1-1-5-060622	Total/NA	Solid	5035	
880-15615-9 MSD	SW-1-1-5-060622	Total/NA	Solid	5035	

Analysis Batch: 27136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-7	B-11-4-060822	Total/NA	Solid	8021B	27164
890-2390-8	B-12-4-060822	Total/NA	Solid	8021B	27164
MB 880-27164/5-A	Method Blank	Total/NA	Solid	8021B	27164
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	8021B	27164
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27164
880-15608-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	27164
880-15608-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27164

Prep Batch: 27164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-7	B-11-4-060822	Total/NA	Solid	5035	
890-2390-8	B-12-4-060822	Total/NA	Solid	5035	
MB 880-27164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15608-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15608-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Total/NA	Solid	5035	
890-2390-2	B-6-4-060822	Total/NA	Solid	5035	
890-2390-3	B-7-4-060822	Total/NA	Solid	5035	
890-2390-4	B-8-4-060822	Total/NA	Solid	5035	
890-2390-5	B-9-4-060822	Total/NA	Solid	5035	
890-2390-6	B-10-4-060822	Total/NA	Solid	5035	
MB 880-27169/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 27169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 27183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	8021B	27134
890-2390-1	B-5-4-060822	Total/NA	Solid	8021B	27169
890-2390-2	B-6-4-060822	Total/NA	Solid	8021B	27169
890-2390-3	B-7-4-060822	Total/NA	Solid	8021B	27169
890-2390-4	B-8-4-060822	Total/NA	Solid	8021B	27169
890-2390-5	B-9-4-060822	Total/NA	Solid	8021B	27169
890-2390-6	B-10-4-060822	Total/NA	Solid	8021B	27169
MB 880-27134/5-A	Method Blank	Total/NA	Solid	8021B	27134
MB 880-27169/5-A	Method Blank	Total/NA	Solid	8021B	27169
LCS 880-27134/1-A	Lab Control Sample	Total/NA	Solid	8021B	27134
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	8021B	27169
LCSD 880-27134/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27134
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27169
880-15615-9 MS	SW-1-1-5-060622	Total/NA	Solid	8021B	27134
880-15615-9 MSD	SW-1-1-5-060622	Total/NA	Solid	8021B	27134
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	27169
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27169

Analysis Batch: 27214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	8021B	27132
880-15615-2	B-2-3-5-060622	Total/NA	Solid	8021B	27132
880-15615-3	B-3-3-5-060622	Total/NA	Solid	8021B	27132
880-15615-4	B-4-2-5-060622	Total/NA	Solid	8021B	27132
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	8021B	27132
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	8021B	27132
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	8021B	27132
MB 880-27132/5-A	Method Blank	Total/NA	Solid	8021B	27132
LCS 880-27132/1-A	Lab Control Sample	Total/NA	Solid	8021B	27132
LCSD 880-27132/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27132
820-4502-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	27132
820-4502-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27132

Analysis Batch: 27286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Total/NA	Solid	Total BTEX	
890-2390-2	B-6-4-060822	Total/NA	Solid	Total BTEX	
890-2390-3	B-7-4-060822	Total/NA	Solid	Total BTEX	
890-2390-4	B-8-4-060822	Total/NA	Solid	Total BTEX	
890-2390-5	B-9-4-060822	Total/NA	Solid	Total BTEX	
890-2390-6	B-10-4-060822	Total/NA	Solid	Total BTEX	
890-2390-7	B-11-4-060822	Total/NA	Solid	Total BTEX	
890-2390-8	B-12-4-060822	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA

Analysis Batch: 27288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	Total BTEX	
880-15615-2	B-2-3-5-060622	Total/NA	Solid	Total BTEX	
880-15615-3	B-3-3-5-060622	Total/NA	Solid	Total BTEX	
880-15615-4	B-4-2-5-060622	Total/NA	Solid	Total BTEX	
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	Total BTEX	
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	Total BTEX	
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	Total BTEX	
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	Total BTEX	
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	Total BTEX	

Prep Batch: 27628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	5035	
MB 880-27628/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27628/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27628/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15895-A-9-B MS	Matrix Spike	Total/NA	Solid	5035	
880-15895-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	5035	
880-15766-2	B-15-5'-060922	Total/NA	Solid	5035	
880-15766-3	B-16-5'-060922	Total/NA	Solid	5035	
880-15766-4	B-17-5'-060922	Total/NA	Solid	5035	
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	5035	
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	5035	
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	5035	
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	5035	
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	5035	
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	5035	
880-15766-11	B-20-3'-061022	Total/NA	Solid	5035	
880-15766-12	B-21-3'-061022	Total/NA	Solid	5035	
880-15766-13	B-22-3'-061022	Total/NA	Solid	5035	
880-15766-14	B-22-3'-061022	Total/NA	Solid	5035	
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	5035	
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	5035	
MB 880-27713/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27713/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27713/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15766-1 MS	B-13-2'-060922	Total/NA	Solid	5035	
880-15766-1 MSD	B-13-2'-060922	Total/NA	Solid	5035	

Analysis Batch: 27741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	8021B	27628
880-15897-1	B-25-6'-061422	Total/NA	Solid	8021B	27794
880-15897-2	B-24-7'-061422	Total/NA	Solid	8021B	27794
880-15897-3	SW-10-3'-061422	Total/NA	Solid	8021B	27794
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	8021B	27794
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	8021B	27794

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 27741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	8021B	27794
MB 880-27628/5-A	Method Blank	Total/NA	Solid	8021B	27628
MB 880-27794/5-A	Method Blank	Total/NA	Solid	8021B	27794
MB 880-27819/5-A	Method Blank	Total/NA	Solid	8021B	27819
LCS 880-27628/1-A	Lab Control Sample	Total/NA	Solid	8021B	27628
LCS 880-27794/1-A	Lab Control Sample	Total/NA	Solid	8021B	27794
LCSD 880-27628/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27628
LCSD 880-27794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27794
880-15834-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	27794
880-15834-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27794
880-15895-A-9-B MS	Matrix Spike	Total/NA	Solid	8021B	27628
880-15895-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27628

Analysis Batch: 27743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	8021B	27713
880-15766-2	B-15-5'-060922	Total/NA	Solid	8021B	27713
880-15766-3	B-16-5'-060922	Total/NA	Solid	8021B	27713
880-15766-4	B-17-5'-060922	Total/NA	Solid	8021B	27713
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	8021B	27713
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	8021B	27713
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	8021B	27713
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	8021B	27713
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	8021B	27713
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	8021B	27713
880-15766-11	B-20-3'-061022	Total/NA	Solid	8021B	27713
880-15766-12	B-21-3'-061022	Total/NA	Solid	8021B	27713
880-15766-13	B-22-3'-061022	Total/NA	Solid	8021B	27713
880-15766-14	B-22-3'-061022	Total/NA	Solid	8021B	27713
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	8021B	27713
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	8021B	27713
MB 880-27713/5-A	Method Blank	Total/NA	Solid	8021B	27713
MB 880-27772/5-A	Method Blank	Total/NA	Solid	8021B	27772
LCS 880-27713/1-A	Lab Control Sample	Total/NA	Solid	8021B	27713
LCSD 880-27713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27713
880-15766-1 MS	B-13-2'-060922	Total/NA	Solid	8021B	27713
880-15766-1 MSD	B-13-2'-060922	Total/NA	Solid	8021B	27713

Prep Batch: 27772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27772/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 27794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Total/NA	Solid	5035	
880-15897-2	B-24-7'-061422	Total/NA	Solid	5035	
880-15897-3	SW-10-3'-061422	Total/NA	Solid	5035	
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	5035	
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	5035	
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	5035	
MB 880-27794/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 27794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-27794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15834-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-15834-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27819/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 27945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	Total BTEX	
880-15766-2	B-15-5'-060922	Total/NA	Solid	Total BTEX	
880-15766-3	B-16-5'-060922	Total/NA	Solid	Total BTEX	
880-15766-4	B-17-5'-060922	Total/NA	Solid	Total BTEX	
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	Total BTEX	
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	Total BTEX	
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	Total BTEX	
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	Total BTEX	
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	Total BTEX	
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	Total BTEX	
880-15766-11	B-20-3'-061022	Total/NA	Solid	Total BTEX	
880-15766-12	B-21-3'-061022	Total/NA	Solid	Total BTEX	
880-15766-13	B-22-3'-061022	Total/NA	Solid	Total BTEX	
880-15766-14	B-22-3'-061022	Total/NA	Solid	Total BTEX	
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	Total BTEX	
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	Total BTEX	

Analysis Batch: 27959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Total/NA	Solid	Total BTEX	
880-15897-2	B-24-7'-061422	Total/NA	Solid	Total BTEX	
880-15897-3	SW-10-3'-061422	Total/NA	Solid	Total BTEX	
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	Total BTEX	
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	Total BTEX	
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	Total BTEX	

Prep Batch: 27986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	5035	
880-16002-2	SW-11-3'-061622	Total/NA	Solid	5035	
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	5035	
880-16002-4	BG-1-10'-061622	Total/NA	Solid	5035	
MB 880-27986/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27986/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27986/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15967-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-15967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA

Prep Batch: 27988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-7	Test-2-10'-061622	Total/NA	Solid	5035	
880-16038-1	SW-16-5'-061722	Total/NA	Solid	5035	
880-16038-2	SW-19-5'-061722	Total/NA	Solid	5035	
880-16038-3	SW-20-5'-061722	Total/NA	Solid	5035	
880-16038-4	SW-21-5'-061722	Total/NA	Solid	5035	
880-16038-5	SW-22-5'-061722	Total/NA	Solid	5035	
880-16038-6	SW-25-5'-061722	Total/NA	Solid	5035	
880-16038-7	SW-24-5'-061722	Total/NA	Solid	5035	
880-16038-8	SW-25-5'-061722	Total/NA	Solid	5035	
MB 880-27988/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27988/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27988/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16002-7 MS	Test-2-10'-061622	Total/NA	Solid	5035	
880-16002-7 MSD	Test-2-10'-061622	Total/NA	Solid	5035	
880-16002-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16002-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-7	Test-2-10'-061622	Total/NA	Solid	8021B	27988
880-16038-1	SW-16-5'-061722	Total/NA	Solid	8021B	27988
880-16038-2	SW-19-5'-061722	Total/NA	Solid	8021B	27988
880-16038-3	SW-20-5'-061722	Total/NA	Solid	8021B	27988
880-16038-4	SW-21-5'-061722	Total/NA	Solid	8021B	27988
880-16038-5	SW-22-5'-061722	Total/NA	Solid	8021B	27988
880-16038-6	SW-25-5'-061722	Total/NA	Solid	8021B	27988
880-16038-7	SW-24-5'-061722	Total/NA	Solid	8021B	27988
880-16038-8	SW-25-5'-061722	Total/NA	Solid	8021B	27988
MB 880-27988/5-A	Method Blank	Total/NA	Solid	8021B	27988
LCS 880-27988/1-A	Lab Control Sample	Total/NA	Solid	8021B	27988
LCSD 880-27988/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27988
880-16002-7 MS	Test-2-10'-061622	Total/NA	Solid	8021B	27988
880-16002-7 MSD	Test-2-10'-061622	Total/NA	Solid	8021B	27988
880-16002-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	27988
880-16002-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27988

Analysis Batch: 28004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	8021B	27986
880-16002-2	SW-11-3'-061622	Total/NA	Solid	8021B	27986
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	8021B	27986
880-16002-4	BG-1-10'-061622	Total/NA	Solid	8021B	27986
880-16002-5	BG-2-10'-061622	Total/NA	Solid	8021B	28059
880-16002-6	Test-1-10'-061622	Total/NA	Solid	8021B	28059
MB 880-27986/5-A	Method Blank	Total/NA	Solid	8021B	27986
MB 880-28059/5-A	Method Blank	Total/NA	Solid	8021B	28059
LCS 880-27986/1-A	Lab Control Sample	Total/NA	Solid	8021B	27986
LCS 880-28059/1-A	Lab Control Sample	Total/NA	Solid	8021B	28059
LCSD 880-27986/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27986
LCSD 880-28059/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28059
880-15967-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	27986

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 28004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27986
880-16057-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	28059
880-16057-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28059

Prep Batch: 28059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-5	BG-2-10'-061622	Total/NA	Solid	5035	
880-16002-6	Test-1-10'-061622	Total/NA	Solid	5035	
MB 880-28059/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28059/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28059/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16057-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16057-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	Total BTEX	
880-16002-2	SW-11-3'-061622	Total/NA	Solid	Total BTEX	
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	Total BTEX	
880-16002-4	BG-1-10'-061622	Total/NA	Solid	Total BTEX	
880-16002-5	BG-2-10'-061622	Total/NA	Solid	Total BTEX	
880-16002-6	Test-1-10'-061622	Total/NA	Solid	Total BTEX	
880-16002-7	Test-2-10'-061622	Total/NA	Solid	Total BTEX	

Analysis Batch: 28136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-2	SW-19-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-3	SW-20-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-4	SW-21-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-5	SW-22-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-6	SW-25-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-7	SW-24-5'-061722	Total/NA	Solid	Total BTEX	
880-16038-8	SW-25-5'-061722	Total/NA	Solid	Total BTEX	

Prep Batch: 28487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	5035	
880-16307-2	SW-31-1'-062422	Total/NA	Solid	5035	
880-16307-3	SW-32-1'-062422	Total/NA	Solid	5035	
880-16307-4	B-27-2'-062422	Total/NA	Solid	5035	
MB 880-28487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2464-A-41-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2464-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	8021B	28487
880-16307-2	SW-31-1'-062422	Total/NA	Solid	8021B	28487

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 28499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-3	SW-32-1'-062422	Total/NA	Solid	8021B	28487
880-16307-4	B-27-2'-062422	Total/NA	Solid	8021B	28487
MB 880-28487/5-A	Method Blank	Total/NA	Solid	8021B	28487
LCS 880-28487/1-A	Lab Control Sample	Total/NA	Solid	8021B	28487
LCSD 880-28487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28487
890-2464-A-41-F MS	Matrix Spike	Total/NA	Solid	8021B	28487
890-2464-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28487

Analysis Batch: 28682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	Total BTEX	
880-16307-2	SW-31-1'-062422	Total/NA	Solid	Total BTEX	
880-16307-3	SW-32-1'-062422	Total/NA	Solid	Total BTEX	
880-16307-4	B-27-2'-062422	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 27115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-2	B-2-3-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-3	B-3-3-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-4	B-4-2-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	8015NM Prep	
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	8015NM Prep	
MB 880-27115/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27115/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2380-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2380-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-2	B-2-3-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-3	B-3-3-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-4	B-4-2-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	8015B NM	27115
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	8015B NM	27115
MB 880-27115/1-A	Method Blank	Total/NA	Solid	8015B NM	27115
LCS 880-27115/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27115
LCSD 880-27115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27115
890-2380-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	27115
890-2380-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27115

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 27248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-2	B-6-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-3	B-7-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-4	B-8-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-5	B-9-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-6	B-10-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-7	B-11-4-060822	Total/NA	Solid	8015NM Prep	
890-2390-8	B-12-4-060822	Total/NA	Solid	8015NM Prep	
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2388-A-61-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2388-A-61-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Total/NA	Solid	8015 NM	
880-15615-2	B-2-3-5-060622	Total/NA	Solid	8015 NM	
880-15615-3	B-3-3-5-060622	Total/NA	Solid	8015 NM	
880-15615-4	B-4-2-5-060622	Total/NA	Solid	8015 NM	
880-15615-5	SW-2-1.5-5-060622	Total/NA	Solid	8015 NM	
880-15615-6	SW-3-1.5-5-060622	Total/NA	Solid	8015 NM	
880-15615-7	B-13-1'-5-060622	Total/NA	Solid	8015 NM	
880-15615-8	B-14-1'-5-060622	Total/NA	Solid	8015 NM	
880-15615-9	SW-1-1-5-060622	Total/NA	Solid	8015 NM	

Analysis Batch: 27332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-2	B-6-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-3	B-7-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-4	B-8-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-5	B-9-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-6	B-10-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-7	B-11-4-060822	Total/NA	Solid	8015B NM	27248
890-2390-8	B-12-4-060822	Total/NA	Solid	8015B NM	27248
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015B NM	27248
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27248
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27248
890-2388-A-61-I MS	Matrix Spike	Total/NA	Solid	8015B NM	27248
890-2388-A-61-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27248

Analysis Batch: 27351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	8015B NM	27379
880-15766-2	B-15-5'-060922	Total/NA	Solid	8015B NM	27379
880-15766-3	B-16-5'-060922	Total/NA	Solid	8015B NM	27379
880-15766-4	B-17-5'-060922	Total/NA	Solid	8015B NM	27379
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015B NM	27379
LCS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27379
LCSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27379

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 27351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1 MS	B-13-2'-060922	Total/NA	Solid	8015B NM	27379
880-15766-1 MSD	B-13-2'-060922	Total/NA	Solid	8015B NM	27379

Analysis Batch: 27353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	8015B NM	27380
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	8015B NM	27380
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	8015B NM	27380
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	8015B NM	27380
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	8015B NM	27380
MB 880-27380/1-A	Method Blank	Total/NA	Solid	8015B NM	27380
LCS 880-27380/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27380
LCSD 880-27380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27380
880-15766-5 MS	SW-4-2.5'-060922	Total/NA	Solid	8015B NM	27380
880-15766-5 MSD	SW-4-2.5'-060922	Total/NA	Solid	8015B NM	27380

Analysis Batch: 27355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	8015B NM	27382
880-15766-11	B-20-3'-061022	Total/NA	Solid	8015B NM	27382
880-15766-12	B-21-3'-061022	Total/NA	Solid	8015B NM	27382
880-15766-13	B-22-3'-061022	Total/NA	Solid	8015B NM	27382
MB 880-27382/1-A	Method Blank	Total/NA	Solid	8015B NM	27382
LCS 880-27382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27382
LCSD 880-27382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27382
880-15766-10 MS	SW-7-1.5'-061022	Total/NA	Solid	8015B NM	27382
880-15766-10 MSD	SW-7-1.5'-061022	Total/NA	Solid	8015B NM	27382

Analysis Batch: 27357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-14	B-22-3'-061022	Total/NA	Solid	8015B NM	27383
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	8015B NM	27383
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	8015B NM	27383
MB 880-27383/1-A	Method Blank	Total/NA	Solid	8015B NM	27383
LCS 880-27383/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27383
LCSD 880-27383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27383
880-15766-14 MS	B-22-3'-061022	Total/NA	Solid	8015B NM	27383
880-15766-14 MSD	B-22-3'-061022	Total/NA	Solid	8015B NM	27383

Analysis Batch: 27368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Total/NA	Solid	8015 NM	
890-2390-2	B-6-4-060822	Total/NA	Solid	8015 NM	
890-2390-3	B-7-4-060822	Total/NA	Solid	8015 NM	
890-2390-4	B-8-4-060822	Total/NA	Solid	8015 NM	
890-2390-5	B-9-4-060822	Total/NA	Solid	8015 NM	
890-2390-6	B-10-4-060822	Total/NA	Solid	8015 NM	
890-2390-7	B-11-4-060822	Total/NA	Solid	8015 NM	
890-2390-8	B-12-4-060822	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 27379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	8015NM Prep	
880-15766-2	B-15-5'-060922	Total/NA	Solid	8015NM Prep	
880-15766-3	B-16-5'-060922	Total/NA	Solid	8015NM Prep	
880-15766-4	B-17-5'-060922	Total/NA	Solid	8015NM Prep	
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-1 MS	B-13-2'-060922	Total/NA	Solid	8015NM Prep	
880-15766-1 MSD	B-13-2'-060922	Total/NA	Solid	8015NM Prep	

Prep Batch: 27380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	8015NM Prep	
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	8015NM Prep	
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	8015NM Prep	
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	8015NM Prep	
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	8015NM Prep	
MB 880-27380/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27380/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-5 MS	SW-4-2.5'-060922	Total/NA	Solid	8015NM Prep	
880-15766-5 MSD	SW-4-2.5'-060922	Total/NA	Solid	8015NM Prep	

Prep Batch: 27382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	8015NM Prep	
880-15766-11	B-20-3'-061022	Total/NA	Solid	8015NM Prep	
880-15766-12	B-21-3'-061022	Total/NA	Solid	8015NM Prep	
880-15766-13	B-22-3'-061022	Total/NA	Solid	8015NM Prep	
MB 880-27382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-10 MS	SW-7-1.5'-061022	Total/NA	Solid	8015NM Prep	
880-15766-10 MSD	SW-7-1.5'-061022	Total/NA	Solid	8015NM Prep	

Prep Batch: 27383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-14	B-22-3'-061022	Total/NA	Solid	8015NM Prep	
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	8015NM Prep	
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	8015NM Prep	
MB 880-27383/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27383/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-14 MS	B-22-3'-061022	Total/NA	Solid	8015NM Prep	
880-15766-14 MSD	B-22-3'-061022	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Total/NA	Solid	8015 NM	
880-15766-2	B-15-5'-060922	Total/NA	Solid	8015 NM	
880-15766-3	B-16-5'-060922	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 27475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-4	B-17-5'-060922	Total/NA	Solid	8015 NM	
880-15766-5	SW-4-2.5'-060922	Total/NA	Solid	8015 NM	
880-15766-6	SW-5-2.5'-060922	Total/NA	Solid	8015 NM	
880-15766-7	B-18-3.5'-061022	Total/NA	Solid	8015 NM	
880-15766-8	B-19-3.5'-061022	Total/NA	Solid	8015 NM	
880-15766-9	SW-6-1.5'-061022	Total/NA	Solid	8015 NM	
880-15766-10	SW-7-1.5'-061022	Total/NA	Solid	8015 NM	
880-15766-11	B-20-3'-061022	Total/NA	Solid	8015 NM	
880-15766-12	B-21-3'-061022	Total/NA	Solid	8015 NM	
880-15766-13	B-22-3'-061022	Total/NA	Solid	8015 NM	
880-15766-14	B-22-3'-061022	Total/NA	Solid	8015 NM	
880-15766-15	SW-8-1.5'-061022	Total/NA	Solid	8015 NM	
880-15766-16	SW-9-1.5'-061022	Total/NA	Solid	8015 NM	

Analysis Batch: 27563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Total/NA	Solid	8015B NM	27626
880-15897-2	B-24-7'-061422	Total/NA	Solid	8015B NM	27626
880-15897-3	SW-10-3'-061422	Total/NA	Solid	8015B NM	27626
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	8015B NM	27626
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	8015B NM	27626
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	8015B NM	27626
MB 880-27626/1-A	Method Blank	Total/NA	Solid	8015B NM	27626
LCS 880-27626/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27626
LCSD 880-27626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27626
880-15897-1 MS	B-25-6'-061422	Total/NA	Solid	8015B NM	27626
880-15897-1 MSD	B-25-6'-061422	Total/NA	Solid	8015B NM	27626

Prep Batch: 27626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Total/NA	Solid	8015NM Prep	
880-15897-2	B-24-7'-061422	Total/NA	Solid	8015NM Prep	
880-15897-3	SW-10-3'-061422	Total/NA	Solid	8015NM Prep	
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	8015NM Prep	
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	8015NM Prep	
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	8015NM Prep	
MB 880-27626/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27626/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15897-1 MS	B-25-6'-061422	Total/NA	Solid	8015NM Prep	
880-15897-1 MSD	B-25-6'-061422	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Total/NA	Solid	8015 NM	
880-15897-2	B-24-7'-061422	Total/NA	Solid	8015 NM	
880-15897-3	SW-10-3'-061422	Total/NA	Solid	8015 NM	
880-15897-4	B-26-4.5'-061422	Total/NA	Solid	8015 NM	
880-15897-5	SW-15-2.5'-061422	Total/NA	Solid	8015 NM	
880-15897-6	SW-16-2.5'-061422	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 27735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	8015B NM	27746
880-16002-2	SW-11-3'-061622	Total/NA	Solid	8015B NM	27746
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	8015B NM	27746
880-16002-4	BG-1-10'-061622	Total/NA	Solid	8015B NM	27746
MB 880-27746/1-A	Method Blank	Total/NA	Solid	8015B NM	27746
LCS 880-27746/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27746
LCSD 880-27746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27746
880-16002-1 MS	SW-10-3.5'-061622	Total/NA	Solid	8015B NM	27746
880-16002-1 MSD	SW-10-3.5'-061622	Total/NA	Solid	8015B NM	27746

Analysis Batch: 27737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-5	BG-2-10'-061622	Total/NA	Solid	8015B NM	27745
880-16002-6	Test-1-10'-061622	Total/NA	Solid	8015B NM	27745
880-16002-7	Test-2-10'-061622	Total/NA	Solid	8015B NM	27745
MB 880-27745/1-A	Method Blank	Total/NA	Solid	8015B NM	27745
LCS 880-27745/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27745
LCSD 880-27745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27745
880-16002-5 MS	BG-2-10'-061622	Total/NA	Solid	8015B NM	27745
880-16002-5 MSD	BG-2-10'-061622	Total/NA	Solid	8015B NM	27745

Prep Batch: 27745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-5	BG-2-10'-061622	Total/NA	Solid	8015NM Prep	
880-16002-6	Test-1-10'-061622	Total/NA	Solid	8015NM Prep	
880-16002-7	Test-2-10'-061622	Total/NA	Solid	8015NM Prep	
MB 880-27745/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27745/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16002-5 MS	BG-2-10'-061622	Total/NA	Solid	8015NM Prep	
880-16002-5 MSD	BG-2-10'-061622	Total/NA	Solid	8015NM Prep	

Prep Batch: 27746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	8015NM Prep	
880-16002-2	SW-11-3'-061622	Total/NA	Solid	8015NM Prep	
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	8015NM Prep	
880-16002-4	BG-1-10'-061622	Total/NA	Solid	8015NM Prep	
MB 880-27746/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27746/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16002-1 MS	SW-10-3.5'-061622	Total/NA	Solid	8015NM Prep	
880-16002-1 MSD	SW-10-3.5'-061622	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Total/NA	Solid	8015 NM	
880-16002-2	SW-11-3'-061622	Total/NA	Solid	8015 NM	
880-16002-3	SW-12-1.5'-061622	Total/NA	Solid	8015 NM	
880-16002-4	BG-1-10'-061622	Total/NA	Solid	8015 NM	
880-16002-5	BG-2-10'-061622	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 27848 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-6	Test-1-10'-061622	Total/NA	Solid	8015 NM	
880-16002-7	Test-2-10'-061622	Total/NA	Solid	8015 NM	

Analysis Batch: 27891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-2	SW-19-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-3	SW-20-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-4	SW-21-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-5	SW-22-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-6	SW-25-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-7	SW-24-5'-061722	Total/NA	Solid	8015B NM	27985
880-16038-8	SW-25-5'-061722	Total/NA	Solid	8015B NM	27985

Prep Batch: 27985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-2	SW-19-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-3	SW-20-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-4	SW-21-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-5	SW-22-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-6	SW-25-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-7	SW-24-5'-061722	Total/NA	Solid	8015NM Prep	
880-16038-8	SW-25-5'-061722	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Total/NA	Solid	8015 NM	
880-16038-2	SW-19-5'-061722	Total/NA	Solid	8015 NM	
880-16038-3	SW-20-5'-061722	Total/NA	Solid	8015 NM	
880-16038-4	SW-21-5'-061722	Total/NA	Solid	8015 NM	
880-16038-5	SW-22-5'-061722	Total/NA	Solid	8015 NM	
880-16038-6	SW-25-5'-061722	Total/NA	Solid	8015 NM	
880-16038-7	SW-24-5'-061722	Total/NA	Solid	8015 NM	
880-16038-8	SW-25-5'-061722	Total/NA	Solid	8015 NM	

Analysis Batch: 28413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	8015B NM	28434
880-16307-2	SW-31-1'-062422	Total/NA	Solid	8015B NM	28434
880-16307-3	SW-32-1'-062422	Total/NA	Solid	8015B NM	28434
880-16307-4	B-27-2'-062422	Total/NA	Solid	8015B NM	28434
MB 880-28434/1-A	Method Blank	Total/NA	Solid	8015B NM	28434
LCS 880-28434/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28434
LCSD 880-28434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28434
890-2457-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	28434
890-2457-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28434

Prep Batch: 28434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 28434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-2	SW-31-1'-062422	Total/NA	Solid	8015NM Prep	
880-16307-3	SW-32-1'-062422	Total/NA	Solid	8015NM Prep	
880-16307-4	B-27-2'-062422	Total/NA	Solid	8015NM Prep	
MB 880-28434/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28434/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2457-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2457-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Total/NA	Solid	8015 NM	
880-16307-2	SW-31-1'-062422	Total/NA	Solid	8015 NM	
880-16307-3	SW-32-1'-062422	Total/NA	Solid	8015 NM	
880-16307-4	B-27-2'-062422	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Soluble	Solid	DI Leach	
880-15615-2	B-2-3-5-060622	Soluble	Solid	DI Leach	
880-15615-3	B-3-3-5-060622	Soluble	Solid	DI Leach	
880-15615-4	B-4-2-5-060622	Soluble	Solid	DI Leach	
880-15615-5	SW-2-1.5-5-060622	Soluble	Solid	DI Leach	
880-15615-6	SW-3-1.5-5-060622	Soluble	Solid	DI Leach	
880-15615-7	B-13-1'-5-060622	Soluble	Solid	DI Leach	
880-15615-8	B-14-1'-5-060622	Soluble	Solid	DI Leach	
880-15615-9	SW-1-1-5-060622	Soluble	Solid	DI Leach	
MB 880-27084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15615-1 MS	B-1-2-5-060622	Soluble	Solid	DI Leach	
880-15615-1 MSD	B-1-2-5-060622	Soluble	Solid	DI Leach	

Analysis Batch: 27100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15615-1	B-1-2-5-060622	Soluble	Solid	300.0	27084
880-15615-2	B-2-3-5-060622	Soluble	Solid	300.0	27084
880-15615-3	B-3-3-5-060622	Soluble	Solid	300.0	27084
880-15615-4	B-4-2-5-060622	Soluble	Solid	300.0	27084
880-15615-5	SW-2-1.5-5-060622	Soluble	Solid	300.0	27084
880-15615-6	SW-3-1.5-5-060622	Soluble	Solid	300.0	27084
880-15615-7	B-13-1'-5-060622	Soluble	Solid	300.0	27084
880-15615-8	B-14-1'-5-060622	Soluble	Solid	300.0	27084
880-15615-9	SW-1-1-5-060622	Soluble	Solid	300.0	27084
MB 880-27084/1-A	Method Blank	Soluble	Solid	300.0	27084
LCS 880-27084/2-A	Lab Control Sample	Soluble	Solid	300.0	27084
LCSD 880-27084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27084
880-15615-1 MS	B-1-2-5-060622	Soluble	Solid	300.0	27084
880-15615-1 MSD	B-1-2-5-060622	Soluble	Solid	300.0	27084

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

HPLC/IC

Leach Batch: 27168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Soluble	Solid	DI Leach	
890-2390-2	B-6-4-060822	Soluble	Solid	DI Leach	
890-2390-3	B-7-4-060822	Soluble	Solid	DI Leach	
890-2390-4	B-8-4-060822	Soluble	Solid	DI Leach	
890-2390-5	B-9-4-060822	Soluble	Solid	DI Leach	
890-2390-6	B-10-4-060822	Soluble	Solid	DI Leach	
890-2390-7	B-11-4-060822	Soluble	Solid	DI Leach	
890-2390-8	B-12-4-060822	Soluble	Solid	DI Leach	
MB 880-27168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2390-5 MS	B-9-4-060822	Soluble	Solid	DI Leach	
890-2390-5 MSD	B-9-4-060822	Soluble	Solid	DI Leach	

Analysis Batch: 27202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2390-1	B-5-4-060822	Soluble	Solid	300.0	27168
890-2390-2	B-6-4-060822	Soluble	Solid	300.0	27168
890-2390-3	B-7-4-060822	Soluble	Solid	300.0	27168
890-2390-4	B-8-4-060822	Soluble	Solid	300.0	27168
890-2390-5	B-9-4-060822	Soluble	Solid	300.0	27168
890-2390-6	B-10-4-060822	Soluble	Solid	300.0	27168
890-2390-7	B-11-4-060822	Soluble	Solid	300.0	27168
890-2390-8	B-12-4-060822	Soluble	Solid	300.0	27168
MB 880-27168/1-A	Method Blank	Soluble	Solid	300.0	27168
LCS 880-27168/2-A	Lab Control Sample	Soluble	Solid	300.0	27168
LCSD 880-27168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27168
890-2390-5 MS	B-9-4-060822	Soluble	Solid	300.0	27168
890-2390-5 MSD	B-9-4-060822	Soluble	Solid	300.0	27168

Leach Batch: 27399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Soluble	Solid	DI Leach	
880-15766-2	B-15-5'-060922	Soluble	Solid	DI Leach	
880-15766-3	B-16-5'-060922	Soluble	Solid	DI Leach	
880-15766-4	B-17-5'-060922	Soluble	Solid	DI Leach	
880-15766-5	SW-4-2.5'-060922	Soluble	Solid	DI Leach	
880-15766-6	SW-5-2.5'-060922	Soluble	Solid	DI Leach	
MB 880-27399/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27399/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27399/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15770-A-11-A MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15770-A-11-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 27401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-7	B-18-3.5'-061022	Soluble	Solid	DI Leach	
880-15766-8	B-19-3.5'-061022	Soluble	Solid	DI Leach	
880-15766-9	SW-6-1.5'-061022	Soluble	Solid	DI Leach	
880-15766-10	SW-7-1.5'-061022	Soluble	Solid	DI Leach	
880-15766-11	B-20-3'-061022	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 27401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-12	B-21-3'-061022	Soluble	Solid	DI Leach	
880-15766-13	B-22-3'-061022	Soluble	Solid	DI Leach	
880-15766-14	B-22-3'-061022	Soluble	Solid	DI Leach	
880-15766-15	SW-8-1.5'-061022	Soluble	Solid	DI Leach	
880-15766-16	SW-9-1.5'-061022	Soluble	Solid	DI Leach	
MB 880-27401/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27401/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27401/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15766-7 MS	B-18-3.5'-061022	Soluble	Solid	DI Leach	
880-15766-7 MSD	B-18-3.5'-061022	Soluble	Solid	DI Leach	

Analysis Batch: 27453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-1	B-13-2'-060922	Soluble	Solid	300.0	27399
880-15766-2	B-15-5'-060922	Soluble	Solid	300.0	27399
880-15766-3	B-16-5'-060922	Soluble	Solid	300.0	27399
880-15766-4	B-17-5'-060922	Soluble	Solid	300.0	27399
880-15766-5	SW-4-2.5'-060922	Soluble	Solid	300.0	27399
880-15766-6	SW-5-2.5'-060922	Soluble	Solid	300.0	27399
MB 880-27399/1-A	Method Blank	Soluble	Solid	300.0	27399
LCS 880-27399/2-A	Lab Control Sample	Soluble	Solid	300.0	27399
LCSD 880-27399/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27399
880-15770-A-11-A MS	Matrix Spike	Soluble	Solid	300.0	27399
880-15770-A-11-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27399

Analysis Batch: 27454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15766-7	B-18-3.5'-061022	Soluble	Solid	300.0	27401
880-15766-8	B-19-3.5'-061022	Soluble	Solid	300.0	27401
880-15766-9	SW-6-1.5'-061022	Soluble	Solid	300.0	27401
880-15766-10	SW-7-1.5'-061022	Soluble	Solid	300.0	27401
880-15766-11	B-20-3'-061022	Soluble	Solid	300.0	27401
880-15766-12	B-21-3'-061022	Soluble	Solid	300.0	27401
880-15766-13	B-22-3'-061022	Soluble	Solid	300.0	27401
880-15766-14	B-22-3'-061022	Soluble	Solid	300.0	27401
880-15766-15	SW-8-1.5'-061022	Soluble	Solid	300.0	27401
880-15766-16	SW-9-1.5'-061022	Soluble	Solid	300.0	27401
MB 880-27401/1-A	Method Blank	Soluble	Solid	300.0	27401
LCS 880-27401/2-A	Lab Control Sample	Soluble	Solid	300.0	27401
LCSD 880-27401/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27401
880-15766-7 MS	B-18-3.5'-061022	Soluble	Solid	300.0	27401
880-15766-7 MSD	B-18-3.5'-061022	Soluble	Solid	300.0	27401

Leach Batch: 27617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Soluble	Solid	DI Leach	
880-15897-2	B-24-7'-061422	Soluble	Solid	DI Leach	
880-15897-3	SW-10-3'-061422	Soluble	Solid	DI Leach	
880-15897-4	B-26-4.5'-061422	Soluble	Solid	DI Leach	
880-15897-5	SW-15-2.5'-061422	Soluble	Solid	DI Leach	
880-15897-6	SW-16-2.5'-061422	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 27617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27617/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27617/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27617/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15894-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15894-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 27620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15897-1	B-25-6'-061422	Soluble	Solid	300.0	27617
880-15897-2	B-24-7'-061422	Soluble	Solid	300.0	27617
880-15897-3	SW-10-3'-061422	Soluble	Solid	300.0	27617
880-15897-4	B-26-4.5'-061422	Soluble	Solid	300.0	27617
880-15897-5	SW-15-2.5'-061422	Soluble	Solid	300.0	27617
880-15897-6	SW-16-2.5'-061422	Soluble	Solid	300.0	27617
MB 880-27617/1-A	Method Blank	Soluble	Solid	300.0	27617
LCS 880-27617/2-A	Lab Control Sample	Soluble	Solid	300.0	27617
LCSD 880-27617/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27617
880-15894-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	27617
880-15894-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27617

Leach Batch: 27799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Soluble	Solid	DI Leach	
880-16002-2	SW-11-3'-061622	Soluble	Solid	DI Leach	
880-16002-3	SW-12-1.5'-061622	Soluble	Solid	DI Leach	
880-16002-4	BG-1-10'-061622	Soluble	Solid	DI Leach	
880-16002-5	BG-2-10'-061622	Soluble	Solid	DI Leach	
880-16002-6	Test-1-10'-061622	Soluble	Solid	DI Leach	
880-16002-7	Test-2-10'-061622	Soluble	Solid	DI Leach	
MB 880-27799/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27799/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27799/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16002-1 MS	SW-10-3.5'-061622	Soluble	Solid	DI Leach	
880-16002-1 MSD	SW-10-3.5'-061622	Soluble	Solid	DI Leach	

Analysis Batch: 27801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16002-1	SW-10-3.5'-061622	Soluble	Solid	300.0	27799
880-16002-2	SW-11-3'-061622	Soluble	Solid	300.0	27799
880-16002-3	SW-12-1.5'-061622	Soluble	Solid	300.0	27799
880-16002-4	BG-1-10'-061622	Soluble	Solid	300.0	27799
880-16002-5	BG-2-10'-061622	Soluble	Solid	300.0	27799
880-16002-6	Test-1-10'-061622	Soluble	Solid	300.0	27799
880-16002-7	Test-2-10'-061622	Soluble	Solid	300.0	27799
MB 880-27799/1-A	Method Blank	Soluble	Solid	300.0	27799
LCS 880-27799/2-A	Lab Control Sample	Soluble	Solid	300.0	27799
LCSD 880-27799/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27799
880-16002-1 MS	SW-10-3.5'-061622	Soluble	Solid	300.0	27799
880-16002-1 MSD	SW-10-3.5'-061622	Soluble	Solid	300.0	27799

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

HPLC/IC

Leach Batch: 27952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Soluble	Solid	DI Leach	
880-16038-2	SW-19-5'-061722	Soluble	Solid	DI Leach	
880-16038-3	SW-20-5'-061722	Soluble	Solid	DI Leach	
880-16038-4	SW-21-5'-061722	Soluble	Solid	DI Leach	
880-16038-5	SW-22-5'-061722	Soluble	Solid	DI Leach	
880-16038-6	SW-25-5'-061722	Soluble	Solid	DI Leach	
880-16038-7	SW-24-5'-061722	Soluble	Solid	DI Leach	
880-16038-8	SW-25-5'-061722	Soluble	Solid	DI Leach	
MB 880-27952/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27952/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27952/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16038-1 MS	SW-16-5'-061722	Soluble	Solid	DI Leach	
880-16038-1 MSD	SW-16-5'-061722	Soluble	Solid	DI Leach	

Analysis Batch: 28021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16038-1	SW-16-5'-061722	Soluble	Solid	300.0	27952
880-16038-2	SW-19-5'-061722	Soluble	Solid	300.0	27952
880-16038-3	SW-20-5'-061722	Soluble	Solid	300.0	27952
880-16038-4	SW-21-5'-061722	Soluble	Solid	300.0	27952
880-16038-5	SW-22-5'-061722	Soluble	Solid	300.0	27952
880-16038-6	SW-25-5'-061722	Soluble	Solid	300.0	27952
880-16038-7	SW-24-5'-061722	Soluble	Solid	300.0	27952
880-16038-8	SW-25-5'-061722	Soluble	Solid	300.0	27952
MB 880-27952/1-A	Method Blank	Soluble	Solid	300.0	27952
LCS 880-27952/2-A	Lab Control Sample	Soluble	Solid	300.0	27952
LCSD 880-27952/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27952
880-16038-1 MS	SW-16-5'-061722	Soluble	Solid	300.0	27952
880-16038-1 MSD	SW-16-5'-061722	Soluble	Solid	300.0	27952

Leach Batch: 28432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Soluble	Solid	DI Leach	
880-16307-2	SW-31-1'-062422	Soluble	Solid	DI Leach	
880-16307-3	SW-32-1'-062422	Soluble	Solid	DI Leach	
880-16307-4	B-27-2'-062422	Soluble	Solid	DI Leach	
MB 880-28432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16244-A-11-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-16244-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 28534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16307-1	SW-30-1'-062422	Soluble	Solid	300.0	28432
880-16307-2	SW-31-1'-062422	Soluble	Solid	300.0	28432
880-16307-3	SW-32-1'-062422	Soluble	Solid	300.0	28432
880-16307-4	B-27-2'-062422	Soluble	Solid	300.0	28432
MB 880-28432/1-A	Method Blank	Soluble	Solid	300.0	28432
LCS 880-28432/2-A	Lab Control Sample	Soluble	Solid	300.0	28432
LCSD 880-28432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28432

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 28534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16244-A-11-F MS	Matrix Spike	Soluble	Solid	300.0	28432
880-16244-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	28432

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-1-2-5-060622
Date Collected: 06/06/22 10:15
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-1
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			5.04 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 02:27	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 15:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			27100	06/08/22 13:49	CH	XEN MID

Client Sample ID: B-2-3-5-060622
Date Collected: 06/06/22 09:30
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-2
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	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 02:54	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 16:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			27100	06/08/22 14:12	CH	XEN MID

Client Sample ID: B-3-3-5-060622
Date Collected: 06/06/22 09:35
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-3
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			5.05 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 03:21	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			27100	06/08/22 14:20	CH	XEN MID

Client Sample ID: B-4-2-5-060622
Date Collected: 06/06/22 10:25
Date Received: 06/08/22 10:33

Lab Sample ID: 880-15615-4
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			4.98 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 03:48	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-4-2-5-060622

Lab Sample ID: 880-15615-4
Matrix: Solid
Date Collected: 06/06/22 10:25
Date Received: 06/08/22 10:33

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			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 16:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			27100	06/08/22 14:28	CH	XEN MID

Client Sample ID: SW-2-1.5-5-060622

Lab Sample ID: 880-15615-5
Matrix: Solid
Date Collected: 06/06/22 09:40
Date Received: 06/08/22 10:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 04:15	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			27100	06/08/22 14:36	CH	XEN MID

Client Sample ID: SW-3-1.5-5-060622

Lab Sample ID: 880-15615-6
Matrix: Solid
Date Collected: 06/06/22 09:45
Date Received: 06/08/22 10:33

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	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 04:43	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 17:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	27100	06/08/22 15:00	CH	XEN MID

Client Sample ID: B-13-1'-5-060622

Lab Sample ID: 880-15615-7
Matrix: Solid
Date Collected: 06/06/22 12:25
Date Received: 06/08/22 10:33

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	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 05:10	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 18:05	AJ	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-13-1'-5-060622

Lab Sample ID: 880-15615-7
Matrix: Solid
Date Collected: 06/06/22 12:25
Date Received: 06/08/22 10:33

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	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			27100	06/08/22 15:07	CH	XEN MID

Client Sample ID: B-14-1'-5-060622

Lab Sample ID: 880-15615-8
Matrix: Solid
Date Collected: 06/06/22 12:30
Date Received: 06/08/22 10:33

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	27628	06/15/22 16:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/17/22 16:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			27100	06/08/22 15:15	CH	XEN MID

Client Sample ID: SW-1-1-5-060622

Lab Sample ID: 880-15615-9
Matrix: Solid
Date Collected: 06/06/22 12:35
Date Received: 06/08/22 10:33

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	27134	06/09/22 08:57	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/10/22 04:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27288	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27277	06/10/22 09:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27115	06/08/22 17:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27121	06/09/22 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27084	06/08/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			27100	06/08/22 15:23	CH	XEN MID

Client Sample ID: B-13-2'-060922

Lab Sample ID: 880-15766-1
Matrix: Solid
Date Collected: 06/09/22 09:00
Date Received: 06/13/22 08:09

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	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 08:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 12:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		1			27453	06/13/22 17:39	CH	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-15-5'-060922
Date Collected: 06/09/22 13:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-2
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			5.03 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 08:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		5			27453	06/13/22 17:46	CH	XEN MID

Client Sample ID: B-16-5'-060922
Date Collected: 06/09/22 13:35
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-3
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			5.01 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 09:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 14:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		5			27453	06/13/22 17:54	CH	XEN MID

Client Sample ID: B-17-5'-060922
Date Collected: 06/09/22 14:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-4
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			5.02 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 09:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		5			27453	06/13/22 18:02	CH	XEN MID

Client Sample ID: SW-4-2.5'-060922
Date Collected: 06/09/22 14:10
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-5
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			5.03 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 09:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-4-2.5'-060922
Date Collected: 06/09/22 14:10
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-5
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	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27380	06/13/22 09:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27353	06/13/22 12:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		1			27453	06/13/22 18:10	CH	XEN MID

Client Sample ID: SW-5-2.5'-060922
Date Collected: 06/09/22 14:20
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 10:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27380	06/13/22 09:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27353	06/13/22 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27399	06/13/22 10:25	SMC	XEN MID
Soluble	Analysis	300.0		1			27453	06/13/22 18:18	CH	XEN MID

Client Sample ID: B-18-3.5'-061022
Date Collected: 06/10/22 09:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-7
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	5035			5.03 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 10:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27380	06/13/22 09:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27353	06/13/22 14:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 17:26	CH	XEN MID

Client Sample ID: B-19-3.5'-061022
Date Collected: 06/10/22 09:35
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 10:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27380	06/13/22 09:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27353	06/13/22 14:23	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-19-3.5'-061022
Date Collected: 06/10/22 09:35
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-8
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			5.02 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 17:54	CH	XEN MID

Client Sample ID: SW-6-1.5'-061022
Date Collected: 06/10/22 09:40
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 11:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27380	06/13/22 09:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27353	06/13/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 18:03	CH	XEN MID

Client Sample ID: SW-7-1.5'-061022
Date Collected: 06/10/22 09:45
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 11:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27382	06/13/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27355	06/13/22 12:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 18:31	CH	XEN MID

Client Sample ID: B-20-3'-061022
Date Collected: 06/10/22 14:15
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 12:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27382	06/13/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27355	06/13/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 18:40	CH	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-21-3'-061022
Date Collected: 06/10/22 14:20
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 13:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27382	06/13/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27355	06/13/22 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		5			27454	06/13/22 18:49	CH	XEN MID

Client Sample ID: B-22-3'-061022
Date Collected: 06/10/22 14:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 13:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27382	06/13/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27355	06/13/22 13:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		5			27454	06/13/22 18:58	CH	XEN MID

Client Sample ID: B-22-3'-061022
Date Collected: 06/10/22 14:45
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 14:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27383	06/13/22 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27357	06/13/22 12:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 19:08	CH	XEN MID

Client Sample ID: SW-8-1.5'-061022
Date Collected: 06/10/22 15:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 14:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-8-1.5'-061022
Date Collected: 06/10/22 15:00
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-15
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	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27383	06/13/22 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27357	06/13/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 19:17	CH	XEN MID

Client Sample ID: SW-9-1.5'-061022
Date Collected: 06/10/22 15:30
Date Received: 06/13/22 08:09

Lab Sample ID: 880-15766-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27713	06/16/22 15:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27743	06/18/22 14:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27945	06/20/22 14:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27475	06/14/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27383	06/13/22 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27357	06/13/22 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27401	06/13/22 10:28	SMC	XEN MID
Soluble	Analysis	300.0		1			27454	06/13/22 19:26	CH	XEN MID

Client Sample ID: B-25-6'-061422
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-1
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			4.95 g	5 mL	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 21:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/15/22 22:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 21:41	CH	XEN MID

Client Sample ID: B-24-7'-061422
Date Collected: 06/14/22 11:53
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-2
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	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 22:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/15/22 23:26	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-24-7'-061422
Date Collected: 06/14/22 11:53
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-2
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			5.01 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 21:51	CH	XEN MID

Client Sample ID: SW-10-3'-061422
Date Collected: 06/14/22 12:00
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-3
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			5.03 g	5 mL	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 22:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/15/22 23:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		5			27620	06/15/22 22:18	CH	XEN MID

Client Sample ID: B-26-4.5'-061422
Date Collected: 06/14/22 15:55
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-4
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			5.02 g	5 mL	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 23:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/16/22 00:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 22:27	CH	XEN MID

Client Sample ID: SW-15-2.5'-061422
Date Collected: 06/14/22 16:00
Date Received: 06/15/22 08:45

Lab Sample ID: 880-15897-5
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			5.03 g	5 mL	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 23:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/16/22 00:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/16/22 11:59	CH	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-16-2.5'-061422

Lab Sample ID: 880-15897-6
Date Collected: 06/14/22 16:05
Matrix: Solid
Date Received: 06/15/22 08:45

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	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 23:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27959	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27673	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27626	06/15/22 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/16/22 00:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27617	06/15/22 14:15	CH	XEN MID
Soluble	Analysis	300.0		5			27620	06/15/22 22:46	CH	XEN MID

Client Sample ID: SW-10-3.5'-061622

Lab Sample ID: 880-16002-1
Date Collected: 06/16/22 09:40
Matrix: Solid
Date Received: 06/17/22 08:35

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	27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 19:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27746	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		1			27801	06/17/22 16:15	CH	XEN MID

Client Sample ID: SW-11-3'-061622

Lab Sample ID: 880-16002-2
Date Collected: 06/16/22 09:00
Matrix: Solid
Date Received: 06/17/22 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 19:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27746	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		1			27801	06/17/22 16:39	CH	XEN MID

Client Sample ID: SW-12-1.5'-061622

Lab Sample ID: 880-16002-3
Date Collected: 06/16/22 09:20
Matrix: Solid
Date Received: 06/17/22 08:35

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	27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 19:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-12-1.5'-061622

Lab Sample ID: 880-16002-3
Date Collected: 06/16/22 09:20
Matrix: Solid
Date Received: 06/17/22 08:35

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			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27746	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		1			27801	06/17/22 16:47	CH	XEN MID

Client Sample ID: BG-1-10'-061622

Lab Sample ID: 880-16002-4
Date Collected: 06/16/22 14:00
Matrix: Solid
Date Received: 06/17/22 08:35

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	27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 20:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27746	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27735	06/17/22 17:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		1			27801	06/17/22 12:58	CH	XEN MID

Client Sample ID: BG-2-10'-061622

Lab Sample ID: 880-16002-5
Date Collected: 06/16/22 14:45
Matrix: Solid
Date Received: 06/17/22 08:35

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	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 23:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27745	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		1			27801	06/17/22 13:06	CH	XEN MID

Client Sample ID: Test-1-10'-061622

Lab Sample ID: 880-16002-6
Date Collected: 06/16/22 15:00
Matrix: Solid
Date Received: 06/17/22 08:35

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	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/21/22 23:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27745	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 16:46	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: Test-1-10'-061622

Lab Sample ID: 880-16002-6
Date Collected: 06/16/22 15:00
Matrix: Solid
Date Received: 06/17/22 08:35

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	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		20			27801	06/17/22 13:30	CH	XEN MID

Client Sample ID: Test-2-10'-061622

Lab Sample ID: 880-16002-7
Date Collected: 06/16/22 15:50
Matrix: Solid
Date Received: 06/17/22 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 13:45	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28135	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27848	06/17/22 18:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27745	06/17/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27799	06/17/22 10:37	CH	XEN MID
Soluble	Analysis	300.0		20			27801	06/17/22 13:38	CH	XEN MID

Client Sample ID: SW-16-5'-061722

Lab Sample ID: 880-16038-1
Date Collected: 06/17/22 12:55
Matrix: Solid
Date Received: 06/20/22 08:00

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	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 14:36	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 05:36	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 09:07	CH	XEN MID

Client Sample ID: SW-19-5'-061722

Lab Sample ID: 880-16038-2
Date Collected: 06/17/22 13:00
Matrix: Solid
Date Received: 06/20/22 08:00

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	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 15:02	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 05:57	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 09:34	CH	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-20-5'-061722
Date Collected: 06/17/22 13:05
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-3
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	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 19:23	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 06:18	SM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 09:43	CH	XEN MID

Client Sample ID: SW-21-5'-061722
Date Collected: 06/17/22 13:10
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-4
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			4.99 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 19:49	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 06:40	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		5			28021	06/21/22 09:53	CH	XEN MID

Client Sample ID: SW-22-5'-061722
Date Collected: 06/17/22 13:15
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-5
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			4.98 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 20:15	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 07:01	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		5			28021	06/21/22 10:02	CH	XEN MID

Client Sample ID: SW-25-5'-061722
Date Collected: 06/17/22 13:20
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 20:41	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-25-5'-061722
Date Collected: 06/17/22 13:20
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-6
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	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 07:23	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 10:30	CH	XEN MID

Client Sample ID: SW-24-5'-061722
Date Collected: 06/17/22 13:25
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-7
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	5035			5.02 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 21:07	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 07:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 10:39	CH	XEN MID

Client Sample ID: SW-25-5'-061722
Date Collected: 06/17/22 13:30
Date Received: 06/20/22 08:00

Lab Sample ID: 880-16038-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27988	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/21/22 21:33	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28136	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28019	06/21/22 09:33	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 08:06	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27952	06/20/22 14:56	SMC	XEN MID
Soluble	Analysis	300.0		1			28021	06/21/22 10:48	CH	XEN MID

Client Sample ID: SW-30-1'-062422
Date Collected: 06/24/22 10:00
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-1
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	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 18:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28682	06/29/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28544	06/28/22 12:53	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28434	06/27/22 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28413	06/27/22 14:44	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: SW-30-1'-062422
Date Collected: 06/24/22 10:00
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-1
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			5.01 g	50 mL	28432	06/27/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		5			28534	06/27/22 20:05	SMC	XEN MID

Client Sample ID: SW-31-1'-062422
Date Collected: 06/24/22 10:05
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-2
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			5.03 g	5 mL	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 19:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28682	06/29/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28544	06/28/22 12:53	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28434	06/27/22 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28413	06/27/22 15:05	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28432	06/27/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28534	06/27/22 20:14	SMC	XEN MID

Client Sample ID: SW-32-1'-062422
Date Collected: 06/24/22 10:10
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-3
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			5.01 g	5 mL	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 19:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28682	06/29/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28544	06/28/22 12:53	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28434	06/27/22 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28413	06/27/22 16:21	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28432	06/27/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28534	06/27/22 20:23	SMC	XEN MID

Client Sample ID: B-27-2'-062422
Date Collected: 06/24/22 10:15
Date Received: 06/27/22 08:00

Lab Sample ID: 880-16307-4
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			4.99 g	5 mL	28487	06/27/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28499	06/28/22 19:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28682	06/29/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28544	06/28/22 12:53	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28434	06/27/22 09:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28413	06/27/22 16:41	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28432	06/27/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28534	06/27/22 20:32	SMC	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-5-4-060822
Date Collected: 06/08/22 09:00
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-1
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	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 22:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/11/22 23:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 14:25	CH	XEN MID

Client Sample ID: B-6-4-060822
Date Collected: 06/08/22 09:10
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-2
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			4.95 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 22:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/11/22 23:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 16:07	CH	XEN MID

Client Sample ID: B-7-4-060822
Date Collected: 06/08/22 09:15
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-3
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			4.99 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 23:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 00:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 16:15	CH	XEN MID

Client Sample ID: B-8-4-060822
Date Collected: 06/08/22 09:20
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-4
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			5.03 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 23:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-8-4-060822
Date Collected: 06/08/22 09:20
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 16:23	CH	XEN MID

Client Sample ID: B-9-4-060822
Date Collected: 06/08/22 09:25
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-5
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			5.00 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 23:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 00:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 16:31	CH	XEN MID

Client Sample ID: B-10-4-060822
Date Collected: 06/08/22 09:30
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/10/22 00:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 16:54	CH	XEN MID

Client Sample ID: B-11-4-060822
Date Collected: 06/08/22 10:00
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-7
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	5035			5.01 g	5 mL	27164	06/09/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27136	06/09/22 18:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 01:39	AJ	XEN MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Client Sample ID: B-11-4-060822
Date Collected: 06/08/22 10:00
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-7
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	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			27202	06/10/22 11:13	CH	XEN MID

Client Sample ID: B-12-4-060822
Date Collected: 06/08/22 10:05
Date Received: 06/08/22 12:20

Lab Sample ID: 890-2390-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27164	06/09/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27136	06/09/22 18:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27286	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27368	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 02:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			27202	06/09/22 17:26	CH	XEN MID

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

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	T104704400-22-23	06-30-22

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 U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

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:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15615-1	B-1-2-5-060622	Solid	06/06/22 10:15	06/08/22 10:33
880-15615-2	B-2-3-5-060622	Solid	06/06/22 09:30	06/08/22 10:33
880-15615-3	B-3-3-5-060622	Solid	06/06/22 09:35	06/08/22 10:33
880-15615-4	B-4-2-5-060622	Solid	06/06/22 10:25	06/08/22 10:33
880-15615-5	SW-2-1.5-5-060622	Solid	06/06/22 09:40	06/08/22 10:33
880-15615-6	SW-3-1.5-5-060622	Solid	06/06/22 09:45	06/08/22 10:33
880-15615-7	B-13-1'-5-060622	Solid	06/06/22 12:25	06/08/22 10:33
880-15615-8	B-14-1'-5-060622	Solid	06/06/22 12:30	06/08/22 10:33
880-15615-9	SW-1-1-5-060622	Solid	06/06/22 12:35	06/08/22 10:33
880-15766-1	B-13-2'-060922	Solid	06/09/22 09:00	06/13/22 08:09
880-15766-2	B-15-5'-060922	Solid	06/09/22 13:30	06/13/22 08:09
880-15766-3	B-16-5'-060922	Solid	06/09/22 13:35	06/13/22 08:09
880-15766-4	B-17-5'-060922	Solid	06/09/22 14:00	06/13/22 08:09
880-15766-5	SW-4-2.5'-060922	Solid	06/09/22 14:10	06/13/22 08:09
880-15766-6	SW-5-2.5'-060922	Solid	06/09/22 14:20	06/13/22 08:09
880-15766-7	B-18-3.5'-061022	Solid	06/10/22 09:30	06/13/22 08:09
880-15766-8	B-19-3.5'-061022	Solid	06/10/22 09:35	06/13/22 08:09
880-15766-9	SW-6-1.5'-061022	Solid	06/10/22 09:40	06/13/22 08:09
880-15766-10	SW-7-1.5'-061022	Solid	06/10/22 09:45	06/13/22 08:09
880-15766-11	B-20-3'-061022	Solid	06/10/22 14:15	06/13/22 08:09
880-15766-12	B-21-3'-061022	Solid	06/10/22 14:20	06/13/22 08:09
880-15766-13	B-22-3'-061022	Solid	06/10/22 14:30	06/13/22 08:09
880-15766-14	B-22-3'-061022	Solid	06/10/22 14:45	06/13/22 08:09
880-15766-15	SW-8-1.5'-061022	Solid	06/10/22 15:00	06/13/22 08:09
880-15766-16	SW-9-1.5'-061022	Solid	06/10/22 15:30	06/13/22 08:09
880-15897-1	B-25-6'-061422	Solid	06/14/22 10:25	06/15/22 08:45
880-15897-2	B-24-7'-061422	Solid	06/14/22 11:53	06/15/22 08:45
880-15897-3	SW-10-3'-061422	Solid	06/14/22 12:00	06/15/22 08:45
880-15897-4	B-26-4.5'-061422	Solid	06/14/22 15:55	06/15/22 08:45
880-15897-5	SW-15-2.5'-061422	Solid	06/14/22 16:00	06/15/22 08:45
880-15897-6	SW-16-2.5'-061422	Solid	06/14/22 16:05	06/15/22 08:45
880-16002-1	SW-10-3.5'-061622	Solid	06/16/22 09:40	06/17/22 08:35
880-16002-2	SW-11-3'-061622	Solid	06/16/22 09:00	06/17/22 08:35
880-16002-3	SW-12-1.5'-061622	Solid	06/16/22 09:20	06/17/22 08:35
880-16002-4	BG-1-10'-061622	Solid	06/16/22 14:00	06/17/22 08:35
880-16002-5	BG-2-10'-061622	Solid	06/16/22 14:45	06/17/22 08:35
880-16002-6	Test-1-10'-061622	Solid	06/16/22 15:00	06/17/22 08:35
880-16002-7	Test-2-10'-061622	Solid	06/16/22 15:50	06/17/22 08:35
880-16038-1	SW-16-5'-061722	Solid	06/17/22 12:55	06/20/22 08:00
880-16038-2	SW-19-5'-061722	Solid	06/17/22 13:00	06/20/22 08:00
880-16038-3	SW-20-5'-061722	Solid	06/17/22 13:05	06/20/22 08:00
880-16038-4	SW-21-5'-061722	Solid	06/17/22 13:10	06/20/22 08:00
880-16038-5	SW-22-5'-061722	Solid	06/17/22 13:15	06/20/22 08:00
880-16038-6	SW-25-5'-061722	Solid	06/17/22 13:20	06/20/22 08:00
880-16038-7	SW-24-5'-061722	Solid	06/17/22 13:25	06/20/22 08:00
880-16038-8	SW-25-5'-061722	Solid	06/17/22 13:30	06/20/22 08:00
880-16307-1	SW-30-1'-062422	Solid	06/24/22 10:00	06/27/22 08:00
880-16307-2	SW-31-1'-062422	Solid	06/24/22 10:05	06/27/22 08:00
880-16307-3	SW-32-1'-062422	Solid	06/24/22 10:10	06/27/22 08:00
880-16307-4	B-27-2'-062422	Solid	06/24/22 10:15	06/27/22 08:00
890-2390-1	B-5-4-060822	Solid	06/08/22 09:00	06/08/22 12:20
890-2390-2	B-6-4-060822	Solid	06/08/22 09:10	06/08/22 12:20
890-2390-3	B-7-4-060822	Solid	06/08/22 09:15	06/08/22 12:20
890-2390-4	B-8-4-060822	Solid	06/08/22 09:20	06/08/22 12:20

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Admiral 2H Flowline

Job ID: 880-15615-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2390-5	B-9-4-060822	Solid	06/08/22 09:25	06/08/22 12:20
890-2390-6	B-10-4-060822	Solid	06/08/22 09:30	06/08/22 12:20
890-2390-7	B-11-4-060822	Solid	06/08/22 10:00	06/08/22 12:20
890-2390-8	B-12-4-060822	Solid	06/08/22 10:05	06/08/22 12:20

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone (575) 988-3199 Phone (575) 988-3199

Chain of Custody Record

eurofins Environment Testing America

15615

Client Information	Sampler: Justin Nixon	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 890-771-27 1
Client Contact: Justin Nixon	Phone: 432-296-9547	E-Mail: John.Builes@et eurofinsus com	State of Origin: NM	Page: Page 1 of 9
Company: ARCADIS U S Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24hr for 300 cl only, Standard for BTEX / TPH			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Admiral 2H Flowline	Project #: 89000100			
Site: Eddy County	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	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	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
B-1-2'-5-060622	6-6-22	1015	C	Solid			X	1	
B-2-3'-5-060622		930		Solid				1	
B-3-3'-5-060622		935		Solid				1	
B-4-2'-5-060622		1025		Solid				1	
SW-2-15'-5-060622	6-6-22	940		Solid				1	
SW-3-15'-5-060622	6-6-22	945		Solid				1	
B-13-1'-5-060722	6-7-22	1225		Solid				1	
B-14-1'-5-060722		1230		Solid				1	
SW-1-1'-5-060722		1235		Solid				1	
				Solid					
				Solid					

880-15615 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		6-7-22 1600	Arcadis		6-8-22 10:27	Eurofins
2		6-8-22 10:33	Eurofins		6/8/22 10:33	
3						

Custody Seals Intact Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1.3 | 1.1 -2 IR

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 880-15615-1
SDG Number: Eddy County

Login Number: 15615
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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

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

CONDITIONS

Action 150025

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 150025
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/28/2022