



COG (ConocoPhillips)

2025 Work Plan

Tomahawk WC Unit 714

Incident # NAPP2430659655

Eddy County, New Mexico

April 2025

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Prepared By:

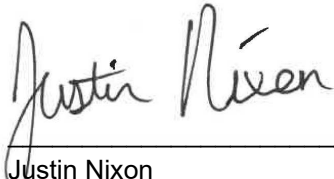
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2025 Work Plan

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2025 Work Plan

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Tomahawk WC Unit 714 (Site) located at 32.1953, -104.1184. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on federal land approximately 4.6-miles southwest of the City of Malaga in Unit A, Section 30, Township 24 South, Range 28 East, Eddy County, New Mexico. The site is located within a medium karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAPP2430659655

According to the Initial C-141 Form, on October 30, 2024, a damaged segment of layflat line due to corrosion resulted in the release of approximately 291.0659 barrels (bbls) of produced water to ground surface at the Site with 20 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on February 3, 2025, and assigned Incident ID number NAPP2430659655. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there's a known water well approximately 0.5-mile from the Site with a reported depth of 80' below ground surface (bgs) to a dry bottom casing. The site characterization and water well data can be found in **Appendix B**.

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

- A continuously flowing watercourse or any other significant watercourse: > Between 1 and 5 mi.
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark): Between 1 and 5 mi.
- An occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 mi.
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 1 and 5 mi.
- Any other fresh water well or spring: Between 1 and 5 mi.
- Incorporated municipal boundaries or a defined municipal fresh water well field: > 5 miles
- A wetland: Between 1/2 and 1 mile
- A subsurface mine: > 5 miles
- A (non-karst) unstable area: > 5 miles
- Categorize the risk of this well/site being in Karst Geology: Medium
- A 100-year floodplain: Between 1 and 5 mi.
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

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4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation and remediation activities due to being in a medium karst area:

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

5 Site Assessment Activities

On March 7, 2025, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of forty (40) sample points were advanced to depths ranging from the surface to 3 feet bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Soil sample locations are shown on **Figure 3**.

Horizontal and vertical delineation was achieved during the initial soil assessment confirming impact from the release is delineated below the NMOCD standards for both reclamation and remediation. Arcadis will use this data to guide reclamation and remediation activities prior to collecting any laboratory analytical samples. Soil sample analytical results are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix C**.

6 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations in soil samples collected during site assessment activities, COG proposes to remediate the areas shown in **Figure 3**, based on analytical data depicted in **Table 1**.

The proposed excavation is approximately 1,500 feet long and an average of 90 feet wide and encompasses a surface area of approximately 135,256 square feet. The majority of the release's impact was confirmed to have been confined to within the first 1-2 feet bgs within the release area that is primarily located between a service road and a subsurface pipeline corridor. Some pooling occurred within the eastern and western pasture areas and chloride impact was confirmed to depths of less than 4 feet bgs.

During the assessment phase, all BTEX and TPH concentrations were reported below the NMOCD reclamation limits shown in Section 4. TPH was detected below the restoration screening criteria at two sampling locations at concentrations of 30.8 mg/kg and 68.6 mg/kg. No BTEX constituents were reported above laboratory detection limits. Chloride concentrations ranged from 3.90 mg/kg to 10,400 mg/kg within the release area. In accordance

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with NMAC 19.15.29.12(D)(1)(b) COG proposes the following alternative confirmation sampling plan as a variance request to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 500 square foot intervals for analysis of chloride by EPA Method 300.0, BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c)

An estimated 12,673 cubic yards of soil will be removed and transported to the nearest NMOCD approved disposal facility. Following completion of excavation activities, the areas will be backfilled with clean material and reclaimed to match the original surface conditions and drainage.

A cultural resource inventory (CRI) was conducted on February 27, 2025, to determine if there are any archeological findings as defined by the Bureau of Land Management. After the assessment, nothing was found to conflict with the release area. The findings from the CRI were submitted to the BLM Archaeological department following completion of the survey on March 10, 2025. The completed survey cover sheet is included in **Appendix D**.

The disturbed areas will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an BLM #2 approved seed mixture.

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

7 Work Plan Approval Request

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

Tables



Table 1
2025 Soil Analytical Results
COG (Conoco Phillips)
Tomahawk WC Unit 714
Eddy County, New Mexico

Sample ID	Sample Date	Soil Status	Depth	BTEX Methods							TPH Methods				CI Method
				Benzene	Toluene	Ethylbenzene	m-Xylene & p-Xylene	o-Xylene	Xylenes, Total	Total BTEX	GRO C6-C10	DRO C10-C28	ORO C28-C36	Total TPH	Chloride
			(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-1-0-1'	3/7/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	68.8 F1	<15.1	68.8	24.7
H-2-0-1'	3/7/2025	In Situ	0-1'	<0.00138	<0.00198	<0.00108	<0.00226	<0.00157	<0.00226	<0.00226	<14.4	<15.0	<15.0	<15.0	3.90 J
H-3-0-1'	3/7/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00158	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	8.71 J
H-4-0-1'	3/7/2025	In Situ	0-1'	<0.00139	<0.00199	<0.00108	<0.00228	<0.00158	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	20.3
H-5-0-1'	3/7/2025	In Situ	0-1'	<0.00140	<0.00201	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	11.2
H-6-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	18.9 J	<15.1	18.9 J	86.4 F1
H-7-0-1'	3/7/2025	In Situ	0-1'	<0.00140	<0.00201	<0.00110	<0.00230	<0.00159	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	60.9
H-8-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	115
H-9-0-1'	3/11/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	122
H-10-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	215
H-11-0-1'	3/10/2025	In Situ	0-1'	<0.00138	<0.00199	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	222
H-12-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00199	<0.00108	<0.00228	<0.00158	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	143
H-13-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	537
H-14-0-1'	3/7/2025	In Situ	0-1'	<0.00141	<0.00202	<0.00110	<0.00231	<0.00160	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	20.0
H-15-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	96.7
H-16-0-1'	3/10/2025	In Situ	0-1'	<0.00140	<0.00201	<0.00110	<0.00230	<0.00159	<0.00230	<0.00230	<14.5	30.8 J	<15.1	30.8 J	103
H-17-0-1'	3/11/2025	In Situ	0-1'	<0.00140	<0.00201	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	6.96 J
H-18-0-1'	3/7/2025	Stepped out	0-1'	<0.00139	<0.00199	<0.00108	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	864
H-18-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	110
H-19-0-1'	3/10/2025	In Situ	0-1'	<0.00138	<0.00198	<0.00108	<0.00226	<0.00157	<0.00226	<0.00226	<14.4	<15.0	<15.0	<15.0	131
H-20-0-1'	3/10/2025	In Situ	0-1'	<0.00138	<0.00199	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	118 F1
H-21-0-1'	3/7/2025	In Situ	0-1'	<0.00138	<0.00199	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	34.1
H-22-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	105
H-23-0-1'	3/7/2025	In Situ	0-1'	<0.00138	<0.00198	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	27.7
S-24-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	94.9
S-24-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	12.7
S-25-0-1'	3/12/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	85.4
S-25-1'-2'	3/12/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	73.9
S-25-2'-3'	3/12/2025	In Situ	2'-3'	--	--	--	--	--	--	--	--	--	--	--	113
S-25-3'-4'	3/12/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	139
S-25-4'-5'	3/12/2025	In Situ	4'-5'	--	--	--	--	--	--	--	--	--	--	--	176
S-26-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	208
S-26-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	201
S-27-0-1'	3/10/2025	In Situ	0-1'	<0.00138	<0.00199	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	124
S-27-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	98.3
S-28-0-1'	3/11/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	4,560 F1
S-28-1'-2'	3/11/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	844
S-28-2'-3'	3/11/2025	In Situ	2'-3'	--	--	--	--	--	--	--	--	--	--	--	1,270
S-28-3'-4'	3/11/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	135
S-28-4'-5'	3/11/2025	In Situ	4'-5'	<0.00138	<0.00199	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	92.4
S-28-5'-6'	3/12/2025	In Situ	5'-6'	--	--	--	--	--	--	--	--	--	--	--	141
S-29-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	5,530
S-29-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	160



Table 1
2025 Soil Analytical Results
COG (Conoco Phillips)
Tomahawk WC Unit 714
Eddy County, New Mexico

Sample ID	Sample Date	Soil Status	Depth	BTEX Methods							TPH Methods				CI Method
				Benzene	Toluene	Ethylbenzene	m-Xylene & p-Xylene	o-Xylene	Xylenes, Total	Total BTEX	GRO C6-C10	DRO C10-C28	ORO C28-C36	Total TPH	Chloride
			(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-29-2'-3'	3/10/2025	In Situ	2'-3'	<0.00139	<0.00200 F1	<0.00109 F1	<0.00228 F1	<0.00158 F1	<0.00228 F1	<0.00228	<14.4	<15.0	<15.0	<15.0	159
S-30-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	2,230
S-30-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	135
S-30-2'-3'	3/10/2025	In Situ	2'-3'	<0.00139	<0.00199	<0.00108	<0.00228	<0.00158	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	181
S-31-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	2,970
S-31-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	201 F1
S-31-2'-3'	3/10/2025	In Situ	2'-3'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	147
S-32-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	3,210
S-32-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	183
S-32-2'-3'	3/10/2025	In Situ	2'-3'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	391
S-33-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	3,640
S-33-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	242
S-33-2'-3'	3/10/2025	In Situ	2'-3'	<0.00140	<0.00201	<0.00110	<0.00230	<0.00159	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	109
S-34-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	2,480
S-34-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	158
S-34-2'-3'	3/10/2025	In Situ	2'-3'	--	--	--	--	--	--	--	--	--	--	--	80.7
S-34-3'-4'	3/11/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	118
S-34-4'-5'	3/11/2025	In Situ	4'-5'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	148
S-34-5'-6'	3/12/2025	In Situ	5'-6'	--	--	--	--	--	--	--	--	--	--	--	347
S-35-0-1'	3/10/2025	In Situ	0-1'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	500
S-35-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	133
S-35-2'-3'	3/10/2025	In Situ	2'-3'	--	--	--	--	--	--	--	--	--	--	--	235
S-36-0-1'	3/10/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	601
S-36-1'-2'	3/10/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	98.9
S-36-2'-3'	3/10/2025	In Situ	2'-3'	<0.00138	<0.00198	<0.00108	<0.00226	<0.00157	<0.00226	<0.00226	<14.4	<15.0	<15.0	<15.0	111
S-37-0-1'	3/11/2025	In Situ	0-1'	<0.00138	<0.00198	<0.00108	<0.00227	<0.00157	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	387
S-37-1'-2'	3/11/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	106
S-37-2'-3'	3/11/2025	In Situ	2'-3'	<0.00140	<0.00201	<0.00110	<0.00230	<0.00159	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	242
S-38-0-1'	3/11/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	3,600
S-38-1'-2'	3/11/2025	In Situ	1'-2'	--	--	--	--	--	--	--	--	--	--	--	249
S-38-2'-3'	3/11/2025	In Situ	2'-3'	<0.00141	<0.00202	<0.00110	<0.00231	<0.00160	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	194
S-38-3'-4'	3/12/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	178 F1
S-38-4'-5'	3/12/2025	In Situ	4'-5'	--	--	--	--	--	--	--	--	--	--	--	167
S-39-0-1'	3/11/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	99.9
S-39-1'-2'	3/11/2025	In Situ	1'-2'	<0.00140	<0.00202	<0.00110	<0.00230	<0.00160	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	72.0
S-39-2'-3'	3/11/2025	In Situ	2'-3'	<0.00138	<0.00198	<0.00108	<0.00226	<0.00157	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	6.30 J
S-39-3'-4'	3/12/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	98.9
S-39-4'-5'	3/12/2025	In Situ	4'-5'	--	--	--	--	--	--	--	--	--	--	--	82.4
S-40-0-1'	3/11/2025	In Situ	0-1'	--	--	--	--	--	--	--	--	--	--	--	10,400
S-40-1'-2'	3/11/2025	In Situ	1'-2'	<0.00139	<0.00200	<0.00109	<0.00228	<0.00158	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	4,240
S-40-2'-3'	3/11/2025	In Situ	2'-3'	--	--	--	--	--	--	--	--	--	--	--	1,950
S-40-3'-4'	3/12/2025	In Situ	3'-4'	--	--	--	--	--	--	--	--	--	--	--	189
S-40-4'-5'	3/12/2025	In Situ	4'-5'	<0.00139	<0.00200	<0.00109	<0.00229	<0.00159	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	183
NMOCD Reclamation Standard				10	--	--	--	--	--	50	--	--	--	100	600
NMOCD Closure Criteria				10	--	--	--	--	--	50	--	--	--	100	600

Table 1
2025 Soil Analytical Results
COG (Conoco Phillips)
Tomahawk WC Unit 714
Eddy County, New Mexico

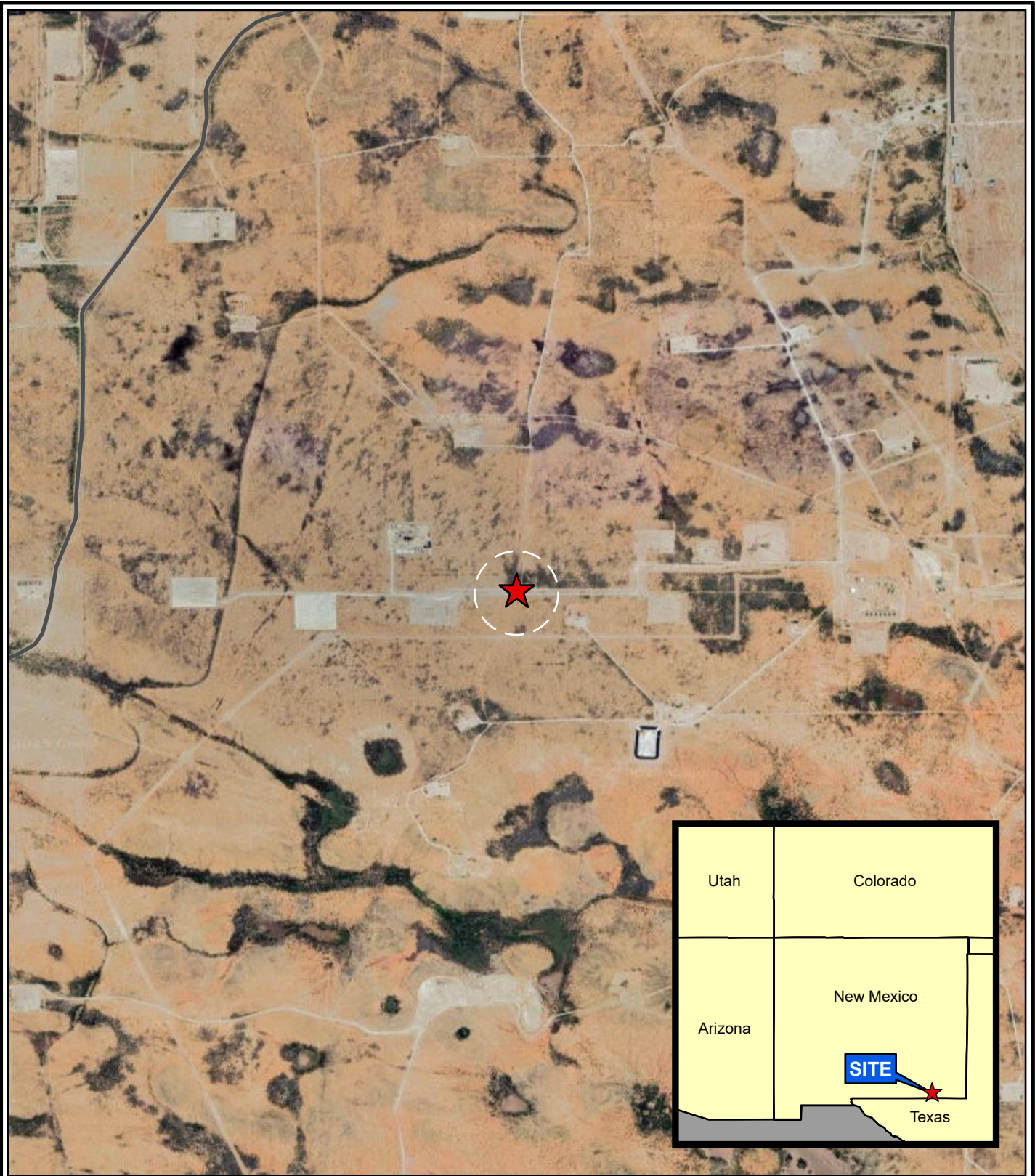
Legend:
BOLD: Analytes exceeding New Mexico Administration Code (NMAC) standards are indicated in bold.
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
J: Result is less than the Reporting Limit (RL) but greater than or equal to the MDL and the concentration is an approximate value.
F1: Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits.
mg/kg: Milligram per Kilogram
BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics
" " " : Indicates one foot
ft: foot
H: Horizontal sample
S: Vertical sample

Notes:
1. Chloride analyzed by EPA Method 300
2. Total TPH analyzed by SW846-8015 NM
3. TPH GRO, DRO and ORO are analyzed by SW846-8015B NM
4. BTEX analyzed by SW846-8021B
5. Total BTEX analyzed by TAL SOP
6. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)
NMOCD: New Mexico Oil Conservation Division
--: No individual standard/ Not analyzed



Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: joym8537 : Client (Project #)
T:\ENVU\Upstream\Tomahawk WC Unit 714\PRO\Tomahawk WC Unit 714.aprx 3/25/2025 4:58 PM



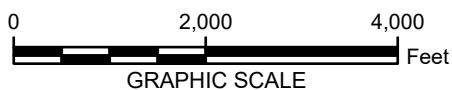
Legend

 Site Location

Datum: D_WGS_1984

Source: ESRI Online, Google Earth

Site Location: 32.195301°, -104.118398°



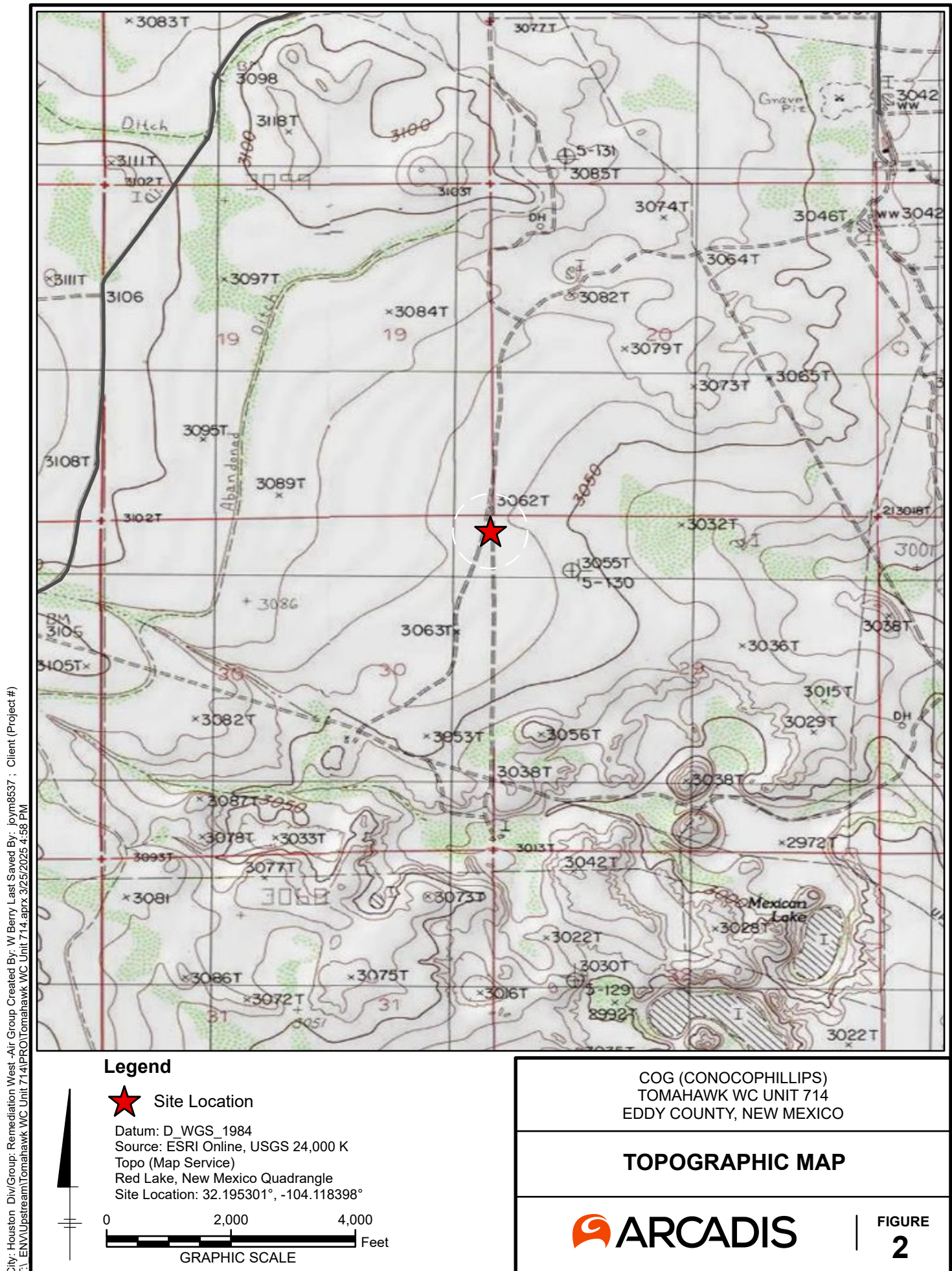
GRAPHIC SCALE

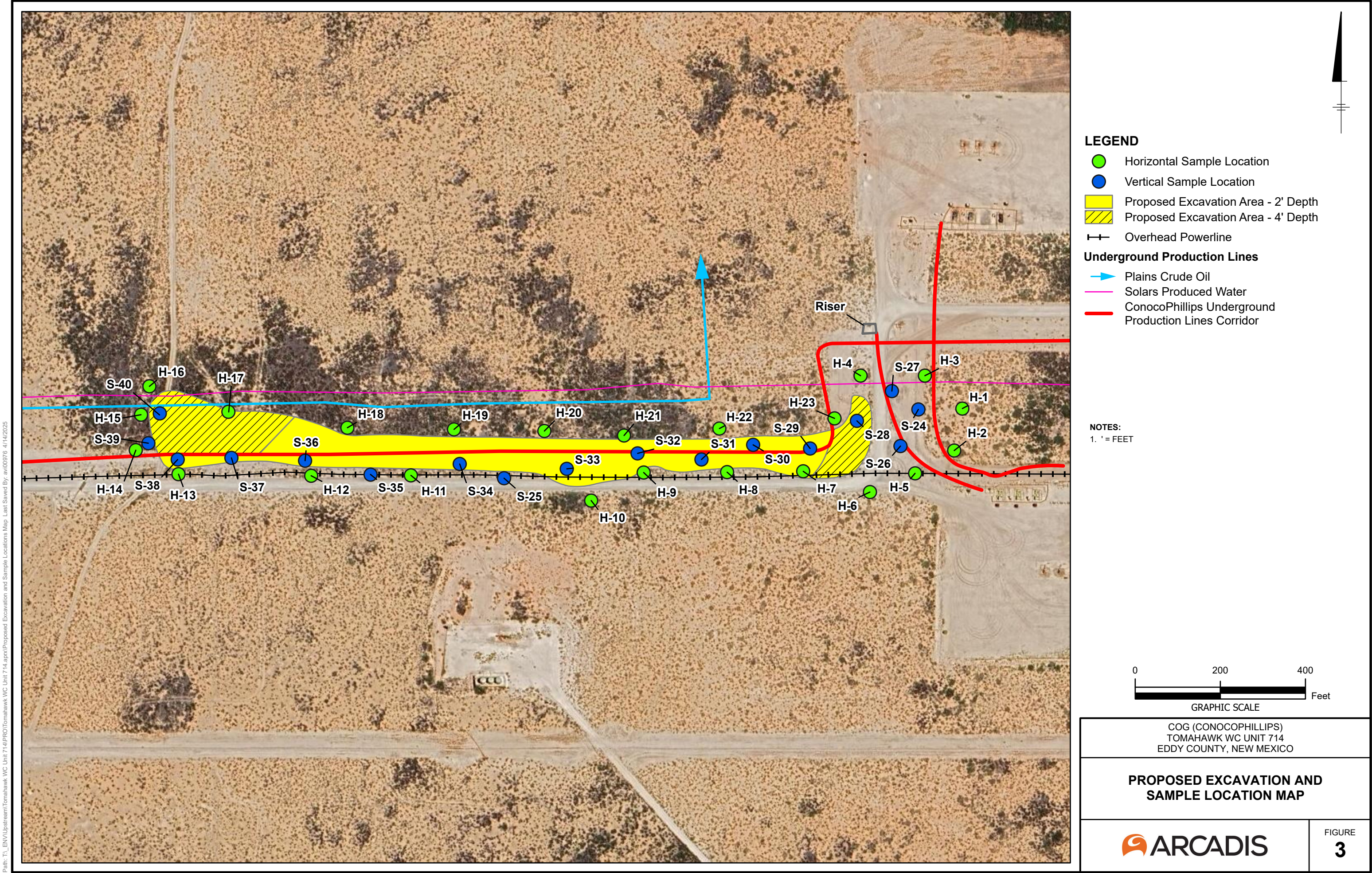
COG (CONOCOPHILLIPS)
TOMAHAWK WC UNIT 714
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1





Photographic Logs



PHOTOGRAPHIC LOG

Property Name: Tomahawk WC Unit 714		Location: Eddy County, NM	Case No. NAPP2430659655
Photo No. 1	Date: 02/13/2025		
Direction Photo Taken: W			
Description: Release area 32.1953, -104.1184			



PHOTOGRAPHIC LOG

Property Name: Tomahawk WC Unit 714		Location: Eddy County, NM	Case No. NAPP2430659655
Photo No. 2	Date: 02/13/2025		
Direction Photo Taken: N			
Description: Release area 32.1953, -104.1184			

Appendix A

Initial C-141 Form Incident # NAPP2430659655

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	nAPP2430659655
District RP	
Facility ID	fAPP2131529305
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Justin Carlile	Contact Telephone	(432) 202-4112
Contact email	Justin.Carlile@ConocoPhillips.com	Incident # (assigned by OCD)	nAPP2430659655
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.1953 Longitude -104.1184
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tomahawk WC Unit 714	Site Type	Flowline
Date Release Discovered	October 30, 2024	API# (if applicable)	

Unit Letter	Section	Township	Range	County
A	30	24S	28E	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) 291.0659	Volume Recovered (bbls) 20
	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 damaged segment of a layflat line due to corrosion.
The release was off the pad. A vacuum truck was dispatched to remove all freestanding fluids.
Evaluation will be made of 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.

Incident ID	nAPP2430659655
District RP	
Facility ID	fAPP2131529305
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? Release 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 notification was made by Justin Carlile on Friday, November 11, 2024 via online portal.	

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 <u>not</u> 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: 	Date: 2/3/2025
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u> Received by: _____ Date: _____	

Provide any known details about the event:				Water transfer line between EKG pond and Tomahawk WC Unit 718H		Primary Cause (dropdown):	Impingement	Secondary Cause (dropdown):	
				Was the Release to Soil / Caliche (dropdown):	Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)	Release Type (dropdown):	Method of Determination (dropdown):	
BU:		Asset Area:		Yes	Off-Pad	20bbbls	Produced Water	Field Measurement	
Known Volume (dropdown):				No					
Known Area (dropdown):				Yes	Mapped Area (sq. ft.)	Average Depth (in.)	Total Estimated Volume of Spill (bbl.)		
					78408	0.25	291.0659		

Appendix B

Site Characterization

Legend

Salt Water Injection, Plugged

Salt Water Injection, Temporarily Abandoned

Water, Active

Water, Cancelled

Water, New

Water, Plugged

Water, Temporarily Abandoned

undefined

Permian Basin Karst Areas

Critical Karst Resource Area

Karst Occurrence Potential

Potential

High

Medium

Low

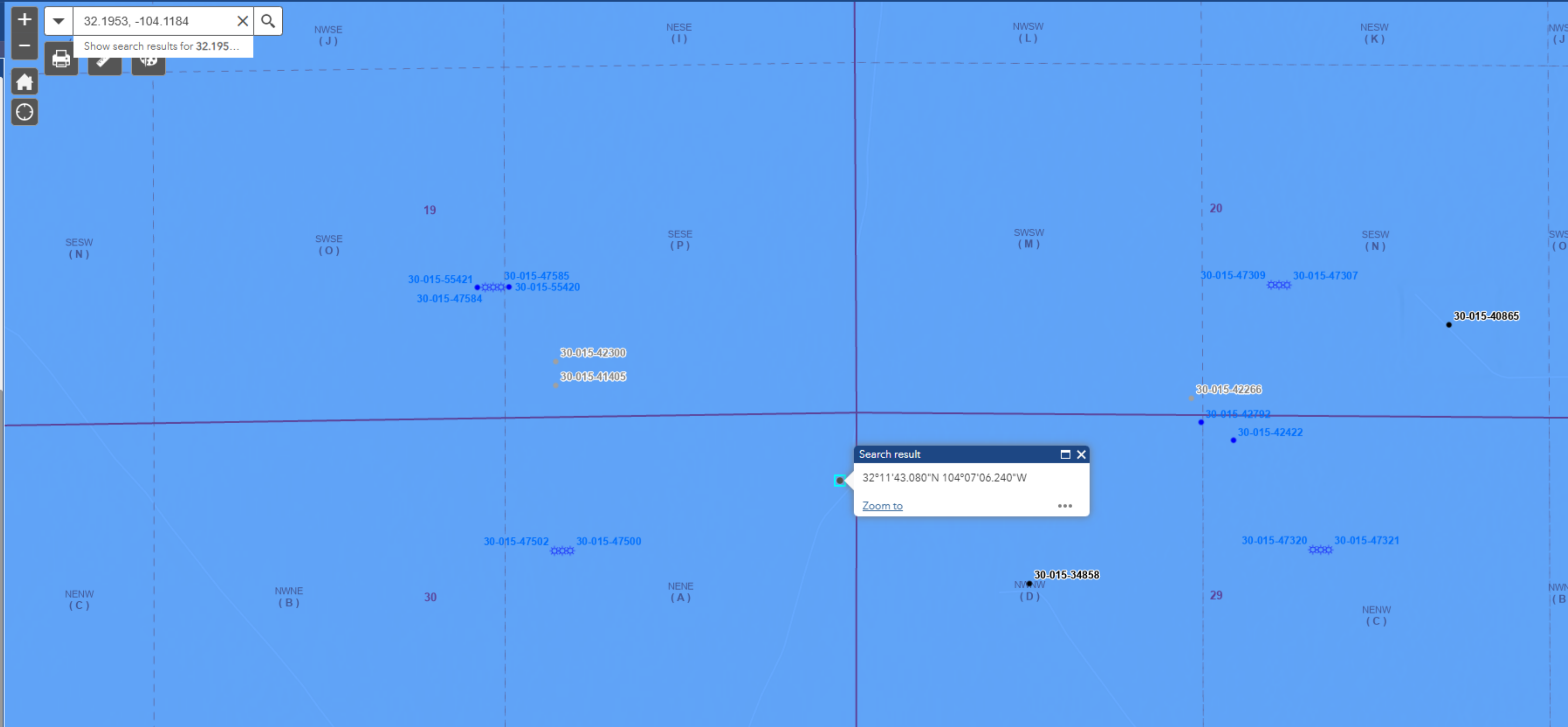
OCD Districts

OCD District Offices

Public Land Survey System (PLSS)

PLSS First Division

PLSS Second Division



+

-

🏠

🔄

32.1953, -104.1184

×

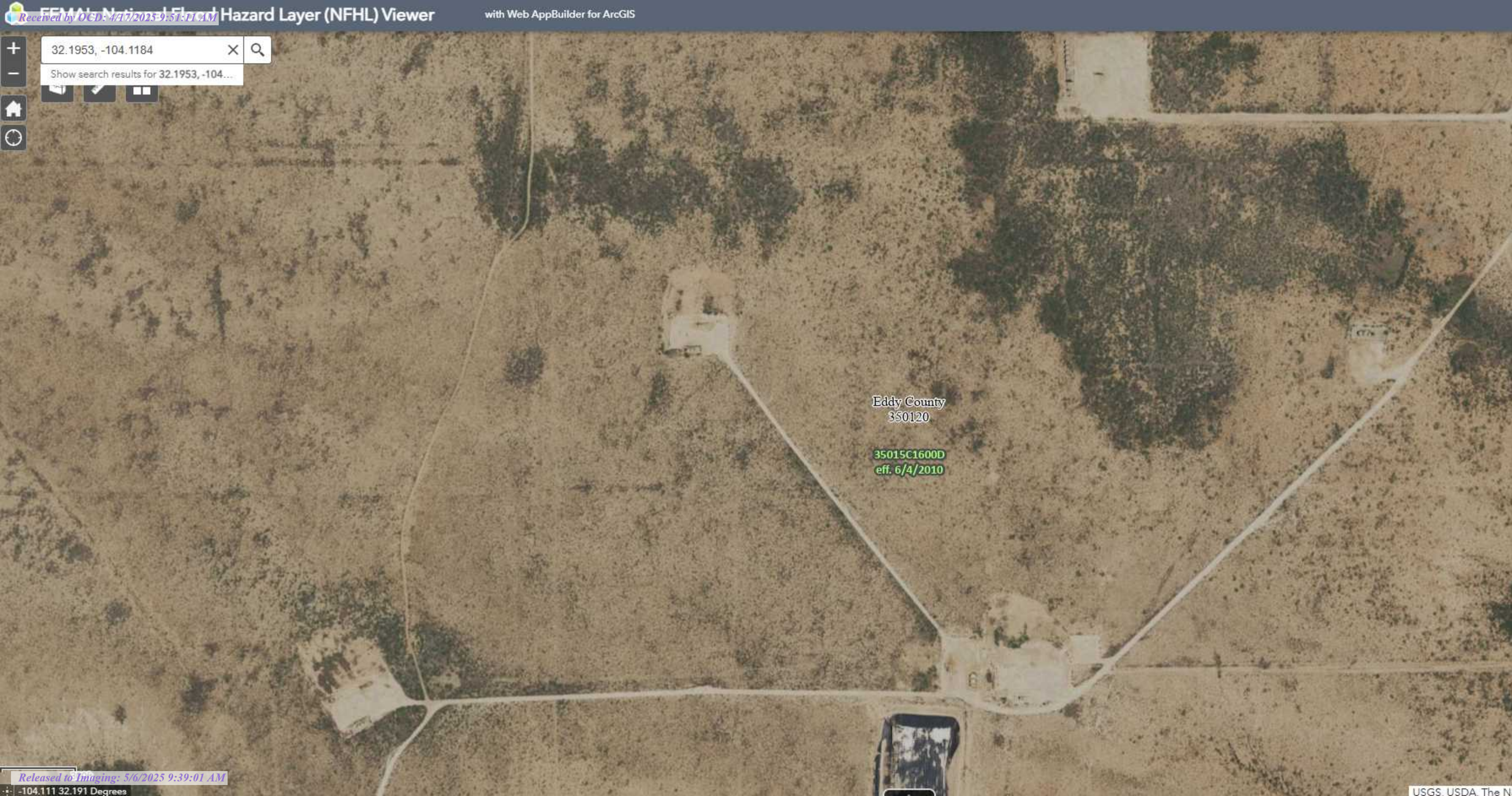
🔍

Show search results for 32.1953, -104....

🗨️

📄

🖨️



Legend

⌵

✕

Flood Structure

✕

Bridge

—

Dam, Weir, Jetty

—

Other Structures

River Mile Markers

•

Limit of Moderate Wave Action

⬆

Flood Hazard Boundaries

Line Type

—

Limit Lines

—

SFHA / Flood Zone Boundary

—●

Flowage Easement Boundary

Flood Hazard Zones

Zone Type

■

1% Annual Chance Flood Hazard

■

Regulatory Floodway

■

Special Floodway

■

Area of Undetermined Flood Hazard

■

0.2% Annual Chance Flood Hazard

■

Future Conditions 1% Annual Chance Flood Hazard

■

Area with Reduced Risk Due to Levee

■

Area with Risk Due to Levee

Primary Frontal Dunes

—

Coastal Barrier Resources System Area (US FWS)

CBRS Prohibitions

▨

Otherwise Protected Area

▨

CBRS Area

Legend

Salt Water Injection, Active

Salt Water Injection, Cancelled

Salt Water Injection, New

Salt Water Injection, Plugged

Salt Water Injection, Temporarily Abandoned

Water, Active

Water, Cancelled

Water, New

Water, Plugged

Water, Temporarily Abandoned

undefined

Mineral and Surface Ownership

Land Ownership

BLM

BOR

DOD

DOE

FS

FWS

I

NPS

P

S

SGF

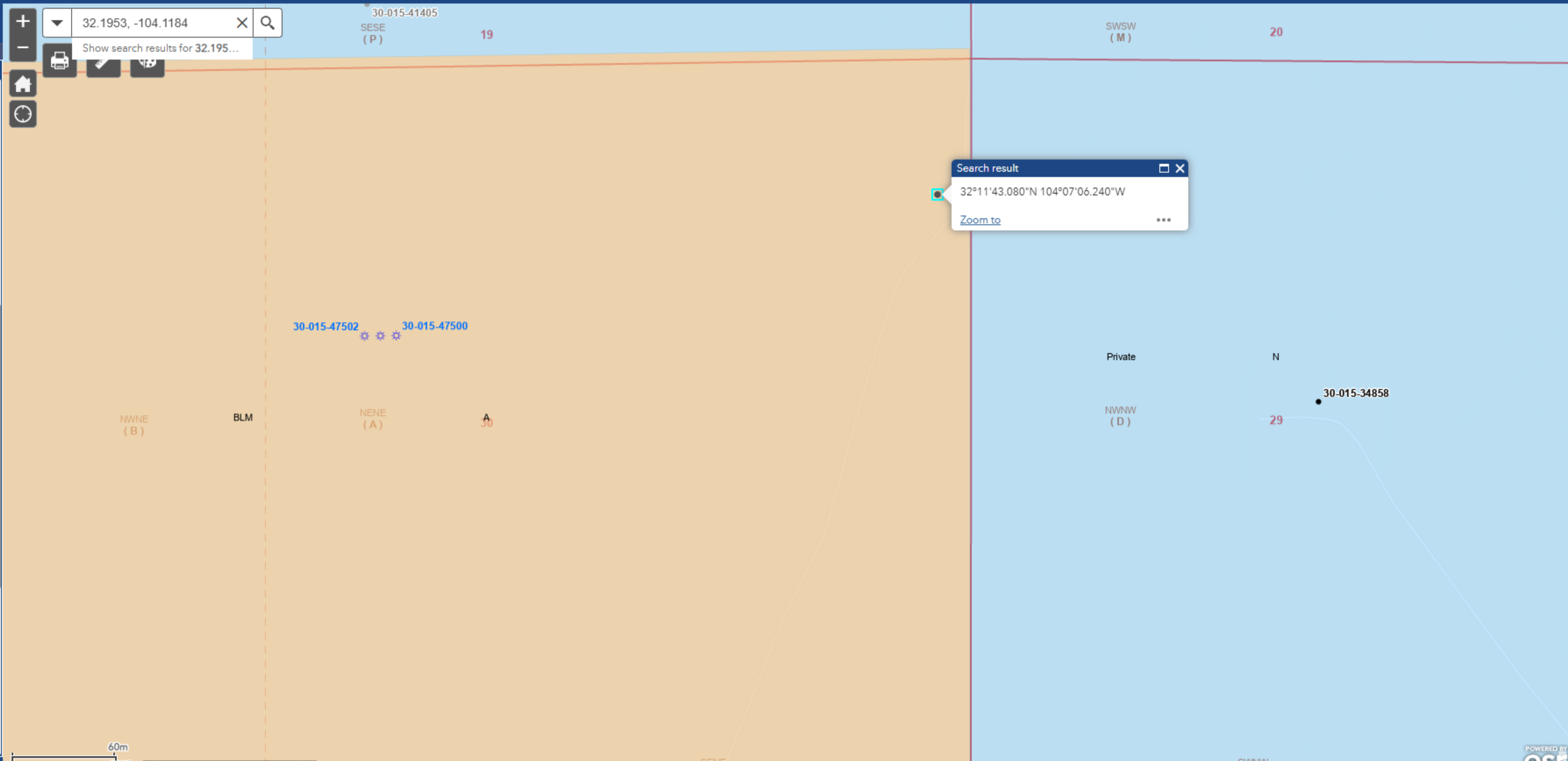
SP

USDA

VCNP

Mineral Ownership

minown

 A-All minerals are owned by U.S. C-Only coal is owned by the U.S.

Wells With Well Log Information

(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)		(meters)		(in feet)		(in feet)						
POD Number	Code	Sub basin	County	Source	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Distance	Start Date	Finish Date	Log File Date	Borehole Depth	Depth Water First Encountered	Driller	License Number
C 04501 POD1		CUB	ED		SW	SE	NW	29	24S	28E	583579.5	3561778.7	 806	2020-12-10	2020-12-10	2020-12-28	80		MALEY, JASONW.TR.L.NER	1690

Record Count: 1

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 583096.27

Northing: 3562424.20

Radius: 860

* UTM location was derived from PLSS - see Help

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4501 PODI		WELL TAG ID NO. No		OSE FILE NO(S) C-4501			
	WELL OWNER NAME(S) Solaris Water Midstream				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3305 Boyd Drive				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 11	SECONDS 27.02	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	6	46.31	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 1690		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 12-10-2020		DRILLING ENDED 12-10-2020		DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 80	DEPTH WATER FIRST ENCOUNTERED (FT) dry	
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) dry		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

FILE NO. C-4501	POD NO. 1	TRN NO. 682581
LOCATION 24S.28E.29.143	WELL TAG ID NO. ---	PAGE 1 OF 2

WR-20 WELL RECORD & LOG (Version 04/30/19)

Released to Imaging: 5/6/2025 9:39:01 AM

Appendix C

Laboratory Analytical Reports



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/8/2025 9:05:16 PM Revision 4

JOB DESCRIPTION

Tomahawk WC Unit 714
Eddy County, NM

JOB NUMBER

880-55599-2

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

Generated
4/8/2025 9:05:16 PM
Revision 4

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Laboratory Job ID: 880-55599-2
SDG: Eddy County, NM

Table of Contents

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Sample Summary	118
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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55403-1

Eurofins Midland

Job Narrative 880-55403-1

REVISION

The report being provided is a revision of the original report sent on 3/11/2025. The report (revision 3) is being revised due to Revised report to correct client sample ID per client instruction..

Report revision history

Revision 2 - 3/27/2025 - Reason - Revised report to create a merged version per client request..

Revision 1 - 3/26/2025 - Reason - Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/7/2025 5:07 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 20.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1-0-1' (880-55403-1), H-2-0-1' (880-55403-2), H-3-0-1' (880-55403-3), H-4-0-1' (880-55403-4), H-5-0-1' (880-55403-5), H-7-0-1' (880-55403-6), H-14-0-1' (880-55403-7), H-21-0-1' (880-55403-8), H-23-0-1' (880-55403-9) and H-18-0-1' (880-55403-10).

HPLC/IC

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

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55403-2

Eurofins Midland

Job Narrative
880-55403-2

REVISION

The report being provided is a revision of the original report sent on 3/18/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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The following samples were received and analyzed from an unpreserved bulk soil jar: H-1-0-1' (880-55403-1), H-2-0-1' (880-55403-2), H-3-0-1' (880-55403-3), H-4-0-1' (880-55403-4), H-5-0-1' (880-55403-5), H-7-0-1' (880-55403-6), H-14-0-1' (880-55403-7), H-21-0-1' (880-55403-8), H-23-0-1' (880-55403-9) and H-18-0-1' (880-55403-10).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-105195 and analytical batch 880-105218 were outside control limits. Non-homogeneity is 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 880-105195/2-A) and (LCSD 880-105195/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-3-0-1' (880-55403-3), H-5-0-1' (880-55403-5), (890-7809-A-1-A) and (890-7809-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-105297 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-105297/32).

Passing CCV within 20 samples from the last passing CCV and within 12 hours; All data is valid

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

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55403-3**Eurofins Midland**

Job Narrative
880-55403-3

REVISION

The report being provided is a revision of the original report sent on 3/20/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/7/2025 5:07 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 20.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1-0-1' (880-55403-1), H-2-0-1' (880-55403-2), H-3-0-1' (880-55403-3), H-4-0-1' (880-55403-4), H-5-0-1' (880-55403-5), H-7-0-1' (880-55403-6), H-14-0-1' (880-55403-7), H-21-0-1' (880-55403-8), H-23-0-1' (880-55403-9) and H-18-0-1' (880-55403-10).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-105620 and analytical batch 880-105636 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-18-0-1' (880-55403-10), (LCS 880-105620/2-A), (LCSD 880-105620/3-A), (890-7832-A-1-B), (890-7832-A-1-C MS) and (890-7832-A-1-D 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.

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55502-1

Eurofins Midland

Job Narrative
880-55502-1

REVISION

The report being provided is a revision of the original report sent on 3/12/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/11/2025 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105058 and analytical batch 880-105064 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-31-1'-2' (880-55502-31), S-31-2'-3' (880-55502-32), S-32-0-1' (880-55502-33), S-32-1'-2' (880-55502-34), S-32-2'-3' (880-55502-35), S-33-0-1' (880-55502-36), S-33-1'-2' (880-55502-37), S-33-2'-3' (880-55502-38), S-35-0-1' (880-55502-39), S-35-1'-2' (880-55502-40), (880-55502-A-31-B MS) and (880-55502-A-31-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105057 and analytical batch 880-105061 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: H-6-0-1' (880-55502-1), (880-55502-A-1-B MS) and (880-55502-A-1-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105057 and analytical batch 880-105061 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: H-20-0-1' (880-55502-11), (880-55502-A-11-B MS) and (880-55502-A-11-C MSD).

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

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55502-2

Eurofins Midland

Job Narrative 880-55502-2

REVISION

The report being provided is a revision of the original report sent on 3/26/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/11/2025 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105579 and analytical batch 880-105631 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-6-0-1' (880-55502-1), H-8-0-1' (880-55502-2), H-10-0-1' (880-55502-3), H-11-0-1' (880-55502-4), H-12-0-1' (880-55502-5), H-13-0-1' (880-55502-6), (LCS 880-105580/2-A), (LCSD 880-105580/3-A), (880-55738-A-120-C), (880-55738-A-120-D MS) and (880-55738-A-120-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-105588 and analytical batch 880-105638 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-30-2'-3' (880-55502-29), S-31-2'-3' (880-55502-32), S-32-2'-3' (880-55502-35), S-33-2'-3' (880-55502-38), S-35-0-1' (880-55502-39), S-36-2'-3' (880-55502-44), (880-55502-A-29-D MS) and (880-55502-A-29-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-105866 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-105866/32).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-15-0-1' (880-55502-7), H-16-0-1' (880-55502-8), H-18-0-1' (880-55502-9), H-20-0-1' (880-55502-11), H-22-0-1' (880-55502-12), S-29-2'-3' (880-55502-15), S-24-0-1' (880-55502-16), S-26-0-1' (880-55502-19) and S-27-0-1' (880-55502-22). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-105811 and analytical batch 880-105866 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-19-0-1' (880-55502-10).

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55502-2 (Continued)

Eurofins Midland

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.

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Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55599-1

Eurofins Midland

Job Narrative
880-55599-1

REVISION

The report being provided is a revision of the original report sent on 3/14/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/13/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105221 and analytical batch 880-105223 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-28-0-1' (880-55599-1), S-28-1'-2' (880-55599-2), S-28-2'-3' (880-55599-3), H-9-0-1' (880-55599-4), H-10-0-1' (880-55599-5), H-17-0-1' (880-55599-6), S-28-3'-4' (880-55599-7), S-28-4'-5' (880-55599-8), S-34-3'-4' (880-55599-9), S-34-4'-5' (880-55599-10), (880-55599-A-1-B MS) and (880-55599-A-1-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105222 and analytical batch 880-105241 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-40-1'-2' (880-55599-21), S-25-0-1' (880-55599-23), S-25-1'-2' (880-55599-24), S-25-2'-3' (880-55599-25), S-25-3'-4' (880-55599-26), S-25-4'-5' (880-55599-27) and H-18-0-1' (880-55599-28).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105222 and analytical batch 880-105241 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-40-2'-3' (880-55599-22), S-38-3'-4' (880-55599-29), S-38-4'-5' (880-55599-30), S-28-5'-6' (880-55599-31), S-34-5'-6' (880-55599-32), S-39-3'-4' (880-55599-33), S-39-4'-5' (880-55599-34), S-40-3'-4' (880-55599-35), S-40-4'-5' (880-55599-36), (880-55599-A-29-B MS) and (880-55599-A-29-C MSD).

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

Eurofins Midland

Case Narrative

Client: Arcadis US Inc.
Project: Tomahawk WC Unit 714

Job ID: 880-55599-2

Job ID: 880-55599-2**Eurofins Midland**

Job Narrative
880-55599-2

REVISION

The report being provided is a revision of the original report sent on 3/24/2025. The report (revision 1) is being revised due to Per client email, requesting nomenclature correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/13/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-105588 and analytical batch 880-105638 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-9-0-1' (880-55599-4), H-10-0-1' (880-55599-5), H-17-0-1' (880-55599-6), S-28-4'-5' (880-55599-8), S-34-4'-5' (880-55599-10), S-37-0-1' (880-55599-11), S-38-2'-3' (880-55599-16), S-39-2'-3' (880-55599-19), H-18-0-1' (880-55599-28), S-40-4'-5' (880-55599-36), (880-55502-A-29-C), (880-55502-A-29-D MS) and (880-55502-A-29-E 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.

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-1-0-1'

Lab Sample ID: 880-55403-1

Date Collected: 03/07/25 09:30

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/12/25 08:19	03/12/25 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/12/25 08:19	03/12/25 16:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/12/25 08:19	03/12/25 16:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg	-		03/12/25 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.8		50.0	15.1	mg/Kg	-		03/13/25 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/13/25 08:06	03/13/25 11:40	1
Diesel Range Organics (Over C10-C28)	68.8	F1	50.0	15.1	mg/Kg	-	03/13/25 08:06	03/13/25 11:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/13/25 08:06	03/13/25 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	03/13/25 08:06	03/13/25 11:40	1
o-Terphenyl	79		70 - 130	03/13/25 08:06	03/13/25 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.7		10.1	0.398	mg/Kg	-		03/11/25 09:18	1

Client Sample ID: H-2-0-1'

Lab Sample ID: 880-55403-2

Date Collected: 03/07/25 09:40

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg	-	03/12/25 08:19	03/12/25 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/12/25 08:19	03/12/25 16:36	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-2-0-1'

Lab Sample ID: 880-55403-2

Date Collected: 03/07/25 09:40

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	03/12/25 08:19	03/12/25 16:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/12/25 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/13/25 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/13/25 08:06	03/13/25 12:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/13/25 08:06	03/13/25 12:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/13/25 08:06	03/13/25 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/13/25 08:06	03/13/25 12:24	1
o-Terphenyl	76		70 - 130				03/13/25 08:06	03/13/25 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.90	J	10.0	0.397	mg/Kg			03/11/25 14:20	1

Client Sample ID: H-3-0-1'

Lab Sample ID: 880-55403-3

Date Collected: 03/07/25 09:50

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/12/25 08:19	03/12/25 16:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/12/25 08:19	03/12/25 16:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/12/25 08:19	03/12/25 16:57	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/12/25 08:19	03/12/25 16:57	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/12/25 08:19	03/12/25 16:57	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/12/25 08:19	03/12/25 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/12/25 08:19	03/12/25 16:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/12/25 08:19	03/12/25 16:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			03/12/25 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/14/25 13:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-3-0-1'

Lab Sample ID: 880-55403-3

Date Collected: 03/07/25 09:50

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg	-	03/14/25 08:16	03/14/25 13:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg	-	03/14/25 08:16	03/14/25 13:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg	-	03/14/25 08:16	03/14/25 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				03/14/25 08:16	03/14/25 13:24	1
o-Terphenyl	157	S1+	70 - 130				03/14/25 08:16	03/14/25 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.71	J	10.1	0.399	mg/Kg	-		03/11/25 14:26	1

Client Sample ID: H-4-0-1'

Lab Sample ID: 880-55403-4

Date Collected: 03/07/25 10:00

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg	-	03/12/25 08:19	03/12/25 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/12/25 08:19	03/12/25 17:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/12/25 08:19	03/12/25 17:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg	-		03/12/25 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg	-		03/13/25 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg	-	03/13/25 08:06	03/13/25 12:53	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg	-	03/13/25 08:06	03/13/25 12:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg	-	03/13/25 08:06	03/13/25 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				03/13/25 08:06	03/13/25 12:53	1
o-Terphenyl	126		70 - 130				03/13/25 08:06	03/13/25 12:53	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-4-0-1'

Lab Sample ID: 880-55403-4

Date Collected: 03/07/25 10:00

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		9.96	0.393	mg/Kg			03/11/25 14:32	1

Client Sample ID: H-5-0-1'

Lab Sample ID: 880-55403-5

Date Collected: 03/07/25 10:10

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		03/12/25 08:19	03/12/25 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/12/25 08:19	03/12/25 17:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/12/25 08:19	03/12/25 17:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			03/12/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/14/25 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/14/25 08:16	03/14/25 13:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/14/25 08:16	03/14/25 13:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/14/25 08:16	03/14/25 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				03/14/25 08:16	03/14/25 13:40	1
o-Terphenyl	136	S1+	70 - 130				03/14/25 08:16	03/14/25 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		9.92	0.392	mg/Kg			03/11/25 14:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-7-0-1'

Lab Sample ID: 880-55403-6

Date Collected: 03/07/25 10:20

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/12/25 08:19	03/12/25 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/12/25 08:19	03/12/25 17:58	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/12/25 08:19	03/12/25 17:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg	-		03/12/25 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg	-		03/14/25 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/14/25 08:16	03/14/25 17:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg	-	03/14/25 08:16	03/14/25 17:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/14/25 08:16	03/14/25 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/14/25 08:16	03/14/25 17:25	1
o-Terphenyl	90		70 - 130	03/14/25 08:16	03/14/25 17:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		10.1	0.398	mg/Kg	-		03/11/25 15:04	1

Client Sample ID: H-14-0-1'

Lab Sample ID: 880-55403-7

Date Collected: 03/07/25 10:30

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	-	03/12/25 08:19	03/12/25 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/12/25 08:19	03/12/25 18:19	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-14-0-1'

Lab Sample ID: 880-55403-7

Date Collected: 03/07/25 10:30

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/12/25 08:19	03/12/25 18:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			03/12/25 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/13/25 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/13/25 08:06	03/13/25 13:39	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:06	03/13/25 13:39	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:06	03/13/25 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/13/25 08:06	03/13/25 13:39	1
o-Terphenyl	72		70 - 130				03/13/25 08:06	03/13/25 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0		9.94	0.393	mg/Kg			03/11/25 15:10	1

Client Sample ID: H-21-0-1'

Lab Sample ID: 880-55403-8

Date Collected: 03/07/25 10:40

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/12/25 08:19	03/12/25 18:39	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/12/25 08:19	03/12/25 18:39	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/12/25 08:19	03/12/25 18:39	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/12/25 08:19	03/12/25 18:39	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/12/25 08:19	03/12/25 18:39	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/12/25 08:19	03/12/25 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/12/25 08:19	03/12/25 18:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/12/25 08:19	03/12/25 18:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/12/25 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/13/25 13:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-21-0-1'

Lab Sample ID: 880-55403-8

Date Collected: 03/07/25 10:40

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg	-	03/13/25 08:06	03/13/25 13:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg	-	03/13/25 08:06	03/13/25 13:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg	-	03/13/25 08:06	03/13/25 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				03/13/25 08:06	03/13/25 13:54	1
o-Terphenyl	76		70 - 130				03/13/25 08:06	03/13/25 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		9.98	0.394	mg/Kg	-		03/11/25 15:16	1

Client Sample ID: H-23-0-1'

Lab Sample ID: 880-55403-9

Date Collected: 03/07/25 10:50

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg	-	03/12/25 08:19	03/12/25 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/12/25 08:19	03/12/25 19:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/12/25 08:19	03/12/25 19:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg	-		03/12/25 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg	-		03/13/25 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg	-	03/13/25 08:06	03/13/25 14:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg	-	03/13/25 08:06	03/13/25 14:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg	-	03/13/25 08:06	03/13/25 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				03/13/25 08:06	03/13/25 14:09	1
o-Terphenyl	70		70 - 130				03/13/25 08:06	03/13/25 14:09	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-23-0-1'

Lab Sample ID: 880-55403-9

Date Collected: 03/07/25 10:50

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		9.92	0.392	mg/Kg			03/11/25 15:22	1

Client Sample ID: H-18-0-1'

Lab Sample ID: 880-55403-10

Date Collected: 03/07/25 11:00

Matrix: Solid

Date Received: 03/07/25 17:07

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		03/20/25 11:36	03/20/25 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/20/25 11:36	03/20/25 13:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/20/25 11:36	03/20/25 13:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			03/20/25 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/20/25 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/20/25 08:21	03/20/25 13:00	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/20/25 08:21	03/20/25 13:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/20/25 08:21	03/20/25 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130				03/20/25 08:21	03/20/25 13:00	1
o-Terphenyl	183	S1+	70 - 130				03/20/25 08:21	03/20/25 13:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	864		10.0	0.396	mg/Kg			03/11/25 15:27	1

Client Sample ID: H-6-0-1'

Lab Sample ID: 880-55502-1

Date Collected: 03/10/25 09:30

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:24	03/19/25 23:02	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-6-0-1'

Lab Sample ID: 880-55502-1

Date Collected: 03/10/25 09:30

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/19/25 13:24	03/19/25 23:02	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/19/25 13:24	03/19/25 23:02	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/19/25 23:02	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	03/19/25 13:24	03/19/25 23:02	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/19/25 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/19/25 13:24	03/19/25 23:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/19/25 13:24	03/19/25 23:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg	-		03/19/25 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	50.0	15.1	mg/Kg	-		03/20/25 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/19/25 13:39	03/20/25 19:49	1
Diesel Range Organics (Over C10-C28)	18.9	J	50.0	15.1	mg/Kg	-	03/19/25 13:39	03/20/25 19:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/19/25 13:39	03/20/25 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	476	S1+	70 - 130	03/19/25 13:39	03/20/25 19:49	1
o-Terphenyl	492	S1+	70 - 130	03/19/25 13:39	03/20/25 19:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4	F1	9.92	0.392	mg/Kg	-		03/12/25 06:16	1

Client Sample ID: H-8-0-1'

Lab Sample ID: 880-55502-2

Date Collected: 03/10/25 09:35

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg	-	03/19/25 13:24	03/20/25 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/19/25 13:24	03/20/25 01:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/19/25 13:24	03/20/25 01:26	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-8-0-1'

Lab Sample ID: 880-55502-2

Date Collected: 03/10/25 09:35

Matrix: Solid

Date Received: 03/11/25 14:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/20/25 01:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/20/25 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/19/25 13:39	03/20/25 20:04	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 13:39	03/20/25 20:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 13:39	03/20/25 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130				03/19/25 13:39	03/20/25 20:04	1
o-Terphenyl	165	S1+	70 - 130				03/19/25 13:39	03/20/25 20:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		10.0	0.397	mg/Kg			03/12/25 06:34	1

Client Sample ID: H-10-0-1'

Lab Sample ID: 880-55502-3

Date Collected: 03/10/25 09:40

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:24	03/20/25 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/19/25 13:24	03/20/25 01:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/19/25 13:24	03/20/25 01:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/20/25 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/19/25 13:39	03/20/25 20:20	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 13:39	03/20/25 20:20	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-10-0-1'

Lab Sample ID: 880-55502-3

Date Collected: 03/10/25 09:40

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg	-	03/19/25 13:39	03/20/25 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				03/19/25 13:39	03/20/25 20:20	1
o-Terphenyl	150	S1+	70 - 130				03/19/25 13:39	03/20/25 20:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		9.94	0.393	mg/Kg	-		03/12/25 14:59	1

Client Sample ID: H-11-0-1'

Lab Sample ID: 880-55502-4

Date Collected: 03/10/25 09:45

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/19/25 13:24	03/20/25 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/19/25 13:24	03/20/25 02:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/19/25 13:24	03/20/25 02:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg	-		03/20/25 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg	-		03/20/25 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/19/25 13:39	03/20/25 20:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg	-	03/19/25 13:39	03/20/25 20:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/19/25 13:39	03/20/25 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130				03/19/25 13:39	03/20/25 20:35	1
o-Terphenyl	173	S1+	70 - 130				03/19/25 13:39	03/20/25 20:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		9.96	0.393	mg/Kg	-		03/12/25 15:05	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-12-0-1'

Lab Sample ID: 880-55502-5

Date Collected: 03/10/25 09:50

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/19/25 13:24	03/20/25 03:31	1
1,4-Difluorobenzene (Surr)	73		70 - 130	03/19/25 13:24	03/20/25 03:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg	-		03/20/25 03:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg	-		03/20/25 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg	-	03/19/25 13:39	03/20/25 20:51	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 13:39	03/20/25 20:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 13:39	03/20/25 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	03/19/25 13:39	03/20/25 20:51	1
o-Terphenyl	163	S1+	70 - 130	03/19/25 13:39	03/20/25 20:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		9.98	0.394	mg/Kg	-		03/12/25 06:51	1

Client Sample ID: H-13-0-1'

Lab Sample ID: 880-55502-6

Date Collected: 03/10/25 09:55

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/25 13:24	03/20/25 03:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/19/25 13:24	03/20/25 03:51	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-13-0-1'

Lab Sample ID: 880-55502-6

Date Collected: 03/10/25 09:55

Matrix: Solid

Date Received: 03/11/25 14:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/20/25 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/19/25 13:39	03/20/25 21:06	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 13:39	03/20/25 21:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 13:39	03/20/25 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				03/19/25 13:39	03/20/25 21:06	1
o-Terphenyl	158	S1+	70 - 130				03/19/25 13:39	03/20/25 21:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	537		10.1	0.398	mg/Kg			03/12/25 13:17	1

Client Sample ID: H-15-0-1'

Lab Sample ID: 880-55502-7

Date Collected: 03/10/25 10:00

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:24	03/20/25 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/19/25 13:24	03/20/25 04:12	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/19/25 13:24	03/20/25 04:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/20/25 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/24/25 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/21/25 16:25	03/24/25 12:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 16:25	03/24/25 12:59	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-15-0-1'

Lab Sample ID: 880-55502-7

Date Collected: 03/10/25 10:00

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130				03/21/25 16:25	03/24/25 12:59	1
o-Terphenyl	174	S1+	70 - 130				03/21/25 16:25	03/24/25 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		9.94	0.393	mg/Kg	-		03/12/25 13:23	1

Client Sample ID: H-16-0-1'

Lab Sample ID: 880-55502-8

Date Collected: 03/10/25 10:05

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/19/25 13:24	03/20/25 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/19/25 13:24	03/20/25 04:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/19/25 13:24	03/20/25 04:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg	-		03/20/25 04:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.8	J	49.9	15.1	mg/Kg	-		03/24/25 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg	-	03/21/25 16:25	03/24/25 13:48	1
Diesel Range Organics (Over C10-C28)	30.8	J	49.9	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 13:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130				03/21/25 16:25	03/24/25 13:48	1
o-Terphenyl	213	S1+	70 - 130				03/21/25 16:25	03/24/25 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		10.0	0.395	mg/Kg	-		03/12/25 13:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-18-0-1'

Lab Sample ID: 880-55502-9

Date Collected: 03/10/25 10:10

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:24	03/20/25 04:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:24	03/20/25 04:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:24	03/20/25 04:53	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:24	03/20/25 04:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:24	03/20/25 04:53	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:24	03/20/25 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/19/25 13:24	03/20/25 04:53	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/19/25 13:24	03/20/25 04:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/24/25 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 16:25	03/24/25 14:04	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 16:25	03/24/25 14:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 16:25	03/24/25 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	181	S1+	70 - 130	03/21/25 16:25	03/24/25 14:04	1
o-Terphenyl	179	S1+	70 - 130	03/21/25 16:25	03/24/25 14:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10.0	0.397	mg/Kg			03/12/25 13:34	1

Client Sample ID: H-19-0-1'

Lab Sample ID: 880-55502-10

Date Collected: 03/10/25 10:15

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/19/25 13:24	03/20/25 05:13	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/19/25 13:24	03/20/25 05:13	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/19/25 13:24	03/20/25 05:13	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/19/25 13:24	03/20/25 05:13	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/19/25 13:24	03/20/25 05:13	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/19/25 13:24	03/20/25 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/25 13:24	03/20/25 05:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/19/25 13:24	03/20/25 05:13	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-19-0-1'

Lab Sample ID: 880-55502-10

Date Collected: 03/10/25 10:15

Matrix: Solid

Date Received: 03/11/25 14:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/20/25 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/25/25 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/19/25 07:32	03/25/25 12:48	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 07:32	03/25/25 12:48	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 07:32	03/25/25 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130				03/19/25 07:32	03/25/25 12:48	1
o-Terphenyl	189	S1+	70 - 130				03/19/25 07:32	03/25/25 12:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		10.1	0.399	mg/Kg			03/12/25 13:40	1

Client Sample ID: H-20-0-1'

Lab Sample ID: 880-55502-11

Date Collected: 03/10/25 10:20

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/19/25 13:24	03/20/25 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				03/19/25 13:24	03/20/25 05:33	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/19/25 13:24	03/20/25 05:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/20/25 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/24/25 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 16:25	03/24/25 15:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 16:25	03/24/25 15:27	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-20-0-1'

Lab Sample ID: 880-55502-11

Date Collected: 03/10/25 10:20

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	250	S1+	70 - 130				03/21/25 16:25	03/24/25 15:27	1
o-Terphenyl	223	S1+	70 - 130				03/21/25 16:25	03/24/25 15:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118	F1	9.90	0.391	mg/Kg	-		03/12/25 07:37	1

Client Sample ID: H-22-0-1'

Lab Sample ID: 880-55502-12

Date Collected: 03/10/25 10:25

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg	-	03/19/25 13:24	03/20/25 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/19/25 13:24	03/20/25 05:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/19/25 13:24	03/20/25 05:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg	-		03/20/25 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg	-		03/24/25 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg	-	03/21/25 16:25	03/24/25 15:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 15:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	234	S1+	70 - 130				03/21/25 16:25	03/24/25 15:43	1
o-Terphenyl	226	S1+	70 - 130				03/21/25 16:25	03/24/25 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		9.90	0.391	mg/Kg	-		03/12/25 07:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-29-0-1'

Lab Sample ID: 880-55502-13

Date Collected: 03/10/25 10:30

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5530		49.9	1.97	mg/Kg			03/12/25 08:00	5

Client Sample ID: S-29-1'-2'

Lab Sample ID: 880-55502-14

Date Collected: 03/10/25 10:35

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		10.1	0.398	mg/Kg			03/12/25 08:18	1

Client Sample ID: S-29-2'-3'

Lab Sample ID: 880-55502-15

Date Collected: 03/10/25 10:40

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 14:22	1
Toluene	<0.00200	U F1	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 14:22	1
Ethylbenzene	<0.00109	U F1	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 14:22	1
m-Xylene & p-Xylene	<0.00228	U F1	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 14:22	1
o-Xylene	<0.00158	U F1	0.00200	0.00158	mg/Kg		03/19/25 13:36	03/20/25 14:22	1
Xylenes, Total	<0.00228	U F1	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/19/25 13:36	03/20/25 14:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/19/25 13:36	03/20/25 14:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/24/25 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/21/25 16:25	03/24/25 15:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 16:25	03/24/25 15:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 16:25	03/24/25 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	272	S1+	70 - 130	03/21/25 16:25	03/24/25 15:59	1
o-Terphenyl	247	S1+	70 - 130	03/21/25 16:25	03/24/25 15:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		9.94	0.393	mg/Kg			03/12/25 08:23	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-24-0-1'

Lab Sample ID: 880-55502-16

Date Collected: 03/10/25 10:45

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 14:43	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 14:43	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 14:43	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:36	03/20/25 14:43	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/19/25 13:36	03/20/25 14:43	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:36	03/20/25 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/19/25 13:36	03/20/25 14:43	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/19/25 13:36	03/20/25 14:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/20/25 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/24/25 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 16:25	03/24/25 16:15	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 16:25	03/24/25 16:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 16:25	03/24/25 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	237	S1+	70 - 130	03/21/25 16:25	03/24/25 16:15	1
o-Terphenyl	218	S1+	70 - 130	03/21/25 16:25	03/24/25 16:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.9		10.0	0.395	mg/Kg			03/12/25 08:29	1

Client Sample ID: S-24-1'-2'

Lab Sample ID: 880-55502-17

Date Collected: 03/10/25 10:50

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		10.0	0.395	mg/Kg			03/12/25 08:35	1

Client Sample ID: S-26-0'-1'

Lab Sample ID: 880-55502-19

Date Collected: 03/10/25 11:00

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 15:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 15:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 15:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-26-0'-1'

Lab Sample ID: 880-55502-19

Date Collected: 03/10/25 11:00

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 15:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:36	03/20/25 15:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/19/25 13:36	03/20/25 15:04	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/19/25 13:36	03/20/25 15:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/24/25 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 16:25	03/24/25 16:31	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 16:25	03/24/25 16:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 16:25	03/24/25 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	225	S1+	70 - 130				03/21/25 16:25	03/24/25 16:31	1
o-Terphenyl	205	S1+	70 - 130				03/21/25 16:25	03/24/25 16:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		9.94	0.393	mg/Kg			03/12/25 08:46	1

Client Sample ID: S-26-1'-2'

Lab Sample ID: 880-55502-20

Date Collected: 03/10/25 11:05

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1	0.397	mg/Kg			03/12/25 08:52	1

Client Sample ID: S-27-0-1'

Lab Sample ID: 880-55502-22

Date Collected: 03/10/25 11:15

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/19/25 13:36	03/20/25 15:24	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/19/25 13:36	03/20/25 15:24	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/19/25 13:36	03/20/25 15:24	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/19/25 13:36	03/20/25 15:24	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/19/25 13:36	03/20/25 15:24	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/19/25 13:36	03/20/25 15:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-27-0-1'

Date Collected: 03/10/25 11:15

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-22

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/25 13:36	03/20/25 15:24	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/19/25 13:36	03/20/25 15:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg	-		03/20/25 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg	-		03/24/25 16:47	1

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

Method 8160-GC/MS - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/21/25 16:25	03/24/25 16:47	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 16:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/21/25 16:25	03/24/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				03/21/25 16:25	03/24/25 16:47	1
o-Terphenyl	154	S1+	70 - 130				03/21/25 16:25	03/24/25 16:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.0	0.395	mg/Kg	-		03/12/25 08:07	1

Client Sample ID: S-27-1'-2'

Date Collected: 03/10/25 11:20

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-23

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.3		10.1	0.399	mg/Kg	-		03/12/25 08:13	1

Client Sample ID: S-34-0-1'

Date Collected: 03/10/25 11:25

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-24

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2480		50.5	1.99	mg/Kg	-		03/12/25 08:19	5

Client Sample ID: S-34-1'-2'

Date Collected: 03/10/25 11:30

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-25

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		10.0	0.396	mg/Kg	-		03/12/25 08:25	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-34-2'-3'

Lab Sample ID: 880-55502-26

Date Collected: 03/10/25 11:35

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		9.94	0.393	mg/Kg			03/12/25 08:43	1

Client Sample ID: S-30-0-1'

Lab Sample ID: 880-55502-27

Date Collected: 03/10/25 11:40

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230		49.6	1.96	mg/Kg			03/12/25 08:49	5

Client Sample ID: S-30-1'-2'

Lab Sample ID: 880-55502-28

Date Collected: 03/10/25 11:45

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		10.1	0.398	mg/Kg			03/12/25 08:55	1

Client Sample ID: S-30-2'-3'

Lab Sample ID: 880-55502-29

Date Collected: 03/10/25 11:50

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		03/19/25 13:36	03/20/25 15:45	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/19/25 13:36	03/20/25 15:45	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/19/25 13:36	03/20/25 15:45	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		03/19/25 13:36	03/20/25 15:45	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		03/19/25 13:36	03/20/25 15:45	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		03/19/25 13:36	03/20/25 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/25 13:36	03/20/25 15:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/19/25 13:36	03/20/25 15:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			03/20/25 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/20/25 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/19/25 14:41	03/20/25 10:15	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/19/25 14:41	03/20/25 10:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/19/25 14:41	03/20/25 10:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	293	S1+	70 - 130	03/19/25 14:41	03/20/25 10:15	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-30-2'-3'

Date Collected: 03/10/25 11:50

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-29

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	303	S1+	70 - 130	03/19/25 14:41	03/20/25 10:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		9.96	0.393	mg/Kg			03/12/25 09:00	1

Client Sample ID: S-31-0-1'

Date Collected: 03/10/25 11:55

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-30

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		49.6	1.96	mg/Kg			03/12/25 09:06	5

Client Sample ID: S-31-1'-2'

Date Collected: 03/10/25 12:00

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-31

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201	F1	10.0	0.396	mg/Kg			03/12/25 09:12	1

Client Sample ID: S-31-2'-3'

Date Collected: 03/10/25 12:05

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-32

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 16:06	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 16:06	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 16:06	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 16:06	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:36	03/20/25 16:06	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/19/25 13:36	03/20/25 16:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/19/25 13:36	03/20/25 16:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/20/25 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 14:41	03/20/25 10:59	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-31-2'-3'

Lab Sample ID: 880-55502-32

Date Collected: 03/10/25 12:05

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 10:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				03/19/25 14:41	03/20/25 10:59	1
o-Terphenyl	169	S1+	70 - 130				03/19/25 14:41	03/20/25 10:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		9.98	0.394	mg/Kg			03/12/25 09:30	1

Client Sample ID: S-32-0-1'

Lab Sample ID: 880-55502-33

Date Collected: 03/10/25 12:10

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3210		49.8	1.97	mg/Kg			03/12/25 09:36	5

Client Sample ID: S-32-1'-2'

Lab Sample ID: 880-55502-34

Date Collected: 03/10/25 12:15

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		10.0	0.397	mg/Kg			03/12/25 09:53	1

Client Sample ID: S-32-2'-3'

Lab Sample ID: 880-55502-35

Date Collected: 03/10/25 12:20

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/19/25 13:36	03/20/25 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/19/25 13:36	03/20/25 16:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/19/25 13:36	03/20/25 16:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/20/25 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/20/25 11:14	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-32-2'-3'

Lab Sample ID: 880-55502-35

Date Collected: 03/10/25 12:20

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/19/25 14:41	03/20/25 11:14	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 14:41	03/20/25 11:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 14:41	03/20/25 11:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130				03/19/25 14:41	03/20/25 11:14	1
o-Terphenyl	174	S1+	70 - 130				03/19/25 14:41	03/20/25 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		10.1	0.398	mg/Kg			03/12/25 09:59	1

Client Sample ID: S-33-0-1'

Lab Sample ID: 880-55502-36

Date Collected: 03/10/25 12:25

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3640		49.7	1.96	mg/Kg			03/12/25 10:05	5

Client Sample ID: S-33-1'-2'

Lab Sample ID: 880-55502-37

Date Collected: 03/10/25 12:30

Matrix: Solid

Date Received: 03/11/25 14:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		9.94	0.393	mg/Kg			03/12/25 10:11	1

Client Sample ID: S-33-2'-3'

Lab Sample ID: 880-55502-38

Date Collected: 03/10/25 12:35

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		03/19/25 13:36	03/20/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/19/25 13:36	03/20/25 16:47	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/19/25 13:36	03/20/25 16:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			03/20/25 16:47	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-33-2'-3'

Lab Sample ID: 880-55502-38

Date Collected: 03/10/25 12:35

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/20/25 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/19/25 14:41	03/20/25 11:29	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 11:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				03/19/25 14:41	03/20/25 11:29	1
o-Terphenyl	167	S1+	70 - 130				03/19/25 14:41	03/20/25 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.0	0.396	mg/Kg			03/12/25 10:17	1

Client Sample ID: S-35-0-1'

Lab Sample ID: 880-55502-39

Date Collected: 03/10/25 12:40

Matrix: Solid

Date Received: 03/11/25 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/19/25 13:36	03/20/25 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/19/25 13:36	03/20/25 17:07	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/19/25 13:36	03/20/25 17:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/20/25 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/20/25 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/19/25 14:41	03/20/25 11:44	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 14:41	03/20/25 11:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 14:41	03/20/25 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				03/19/25 14:41	03/20/25 11:44	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-35-0-1'

Date Collected: 03/10/25 12:40

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-39

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	167	S1+	70 - 130	03/19/25 14:41	03/20/25 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		9.96	0.393	mg/Kg			03/12/25 10:23	1

Client Sample ID: S-35-1'-2'

Date Collected: 03/10/25 12:45

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-40

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.92	0.392	mg/Kg			03/12/25 10:29	1

Client Sample ID: S-35-2'-3'

Date Collected: 03/10/25 12:50

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-41

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		10.1	0.398	mg/Kg			03/12/25 08:40	1

Client Sample ID: S-36-0-1'

Date Collected: 03/10/25 12:55

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-42

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	601		10.1	0.398	mg/Kg			03/12/25 04:13	1

Client Sample ID: S-36-1'-2'

Date Collected: 03/10/25 13:00

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-43

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.9		9.94	0.393	mg/Kg			03/12/25 09:44	1

Client Sample ID: S-36-2'-3'

Date Collected: 03/10/25 13:05

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/19/25 13:36	03/20/25 17:28	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/19/25 13:36	03/20/25 17:28	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/19/25 13:36	03/20/25 17:28	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/19/25 13:36	03/20/25 17:28	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/19/25 13:36	03/20/25 17:28	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/19/25 13:36	03/20/25 17:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-36-2'-3'

Date Collected: 03/10/25 13:05

Date Received: 03/11/25 14:35

Lab Sample ID: 880-55502-44

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/19/25 13:36	03/20/25 17:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/19/25 13:36	03/20/25 17:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg	-		03/20/25 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg	-		03/20/25 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg	-	03/19/25 14:41	03/20/25 11:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 11:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130				03/19/25 14:41	03/20/25 11:58	1
o-Terphenyl	175	S1+	70 - 130				03/19/25 14:41	03/20/25 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		9.92	0.392	mg/Kg	-		03/12/25 10:01	1

Client Sample ID: S-28-0-1'

Date Collected: 03/11/25 09:00

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4560	F1	49.6	1.96	mg/Kg	-		03/13/25 16:57	5

Client Sample ID: S-28-1'-2'

Date Collected: 03/11/25 09:10

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	844		10.1	0.398	mg/Kg	-		03/13/25 17:15	1

Client Sample ID: S-28-2'-3'

Date Collected: 03/11/25 09:20

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		9.94	0.393	mg/Kg	-		03/13/25 17:21	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-9-0-1'

Lab Sample ID: 880-55599-4

Date Collected: 03/11/25 10:00

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 08:38	03/21/25 11:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 08:38	03/21/25 11:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 08:38	03/21/25 11:23	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 08:38	03/21/25 11:23	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 08:38	03/21/25 11:23	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 08:38	03/21/25 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/21/25 08:38	03/21/25 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/21/25 08:38	03/21/25 11:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/21/25 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/20/25 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 14:41	03/20/25 12:15	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 12:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130	03/19/25 14:41	03/20/25 12:15	1
o-Terphenyl	163	S1+	70 - 130	03/19/25 14:41	03/20/25 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		9.92	0.392	mg/Kg			03/13/25 17:27	1

Client Sample ID: H-10-0-1'

Lab Sample ID: 880-55599-5

Date Collected: 03/11/25 10:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		03/21/25 08:38	03/21/25 11:43	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		03/21/25 08:38	03/21/25 11:43	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		03/21/25 08:38	03/21/25 11:43	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 08:38	03/21/25 11:43	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		03/21/25 08:38	03/21/25 11:43	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 08:38	03/21/25 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/21/25 08:38	03/21/25 11:43	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/21/25 08:38	03/21/25 11:43	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-10-0-1'

Lab Sample ID: 880-55599-5

Date Collected: 03/11/25 10:20

Matrix: Solid

Date Received: 03/13/25 09:50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			03/21/25 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/20/25 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/19/25 14:41	03/20/25 12:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 14:41	03/20/25 12:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/19/25 14:41	03/20/25 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130				03/19/25 14:41	03/20/25 12:29	1
o-Terphenyl	177	S1+	70 - 130				03/19/25 14:41	03/20/25 12:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0	0.397	mg/Kg			03/13/25 17:32	1

Client Sample ID: H-17-0-1'

Lab Sample ID: 880-55599-6

Date Collected: 03/11/25 10:40

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		03/21/25 08:38	03/21/25 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/21/25 08:38	03/21/25 12:04	1
1,4-Difluorobenzene (Surr)	77		70 - 130				03/21/25 08:38	03/21/25 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			03/21/25 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/20/25 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/19/25 14:41	03/20/25 12:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/19/25 14:41	03/20/25 12:43	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-17-0-1'

Lab Sample ID: 880-55599-6

Date Collected: 03/11/25 10:40

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				03/19/25 14:41	03/20/25 12:43	1
o-Terphenyl	176	S1+	70 - 130				03/19/25 14:41	03/20/25 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.96	J	9.98	0.394	mg/Kg	-		03/13/25 17:58	1

Client Sample ID: S-28-3'-4'

Lab Sample ID: 880-55599-7

Date Collected: 03/11/25 11:15

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		10.1	0.398	mg/Kg	-		03/13/25 18:04	1

Client Sample ID: S-28-4'-5'

Lab Sample ID: 880-55599-8

Date Collected: 03/11/25 11:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/21/25 08:38	03/21/25 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 08:38	03/21/25 12:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/21/25 08:38	03/21/25 12:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg	-		03/21/25 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg	-		03/20/25 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg	-	03/19/25 14:41	03/20/25 13:00	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg	-	03/19/25 14:41	03/20/25 13:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/19/25 14:41	03/20/25 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130				03/19/25 14:41	03/20/25 13:00	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-28-4'-5'

Lab Sample ID: 880-55599-8

Date Collected: 03/11/25 11:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	171	S1+	70 - 130	03/19/25 14:41	03/20/25 13:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.4		9.94	0.393	mg/Kg			03/13/25 18:10	1

Client Sample ID: S-34-3'-4'

Lab Sample ID: 880-55599-9

Date Collected: 03/11/25 11:40

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		9.98	0.394	mg/Kg			03/13/25 18:15	1

Client Sample ID: S-34-4'-5'

Lab Sample ID: 880-55599-10

Date Collected: 03/11/25 11:05

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 08:38	03/21/25 12:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 08:38	03/21/25 12:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 08:38	03/21/25 12:45	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 08:38	03/21/25 12:45	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 08:38	03/21/25 12:45	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 08:38	03/21/25 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/21/25 08:38	03/21/25 12:45	1
1,4-Difluorobenzene (Surr)	77		70 - 130	03/21/25 08:38	03/21/25 12:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/21/25 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/20/25 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/19/25 14:41	03/20/25 13:18	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 13:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	03/19/25 14:41	03/20/25 13:18	1
o-Terphenyl	162	S1+	70 - 130	03/19/25 14:41	03/20/25 13:18	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-34-4'-5'

Lab Sample ID: 880-55599-10

Date Collected: 03/11/25 11:05

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.0	0.396	mg/Kg			03/13/25 18:21	1

Client Sample ID: S-37-0-1'

Lab Sample ID: 880-55599-11

Date Collected: 03/11/25 11:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/21/25 08:38	03/21/25 13:05	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 08:38	03/21/25 13:05	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 08:38	03/21/25 13:05	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		03/21/25 08:38	03/21/25 13:05	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 08:38	03/21/25 13:05	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		03/21/25 08:38	03/21/25 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/25 08:38	03/21/25 13:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/21/25 08:38	03/21/25 13:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			03/21/25 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/20/25 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/19/25 14:41	03/20/25 13:36	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 14:41	03/20/25 13:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/19/25 14:41	03/20/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	03/19/25 14:41	03/20/25 13:36	1
o-Terphenyl	158	S1+	70 - 130	03/19/25 14:41	03/20/25 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		10.0	0.395	mg/Kg			03/13/25 18:27	1

Client Sample ID: S-37-1'-2'

Lab Sample ID: 880-55599-12

Date Collected: 03/11/25 11:40

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.92	0.392	mg/Kg			03/13/25 18:45	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-37-2'-3'

Lab Sample ID: 880-55599-13

Date Collected: 03/11/25 11:50

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/21/25 08:38	03/21/25 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/25 08:38	03/21/25 13:26	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/21/25 08:38	03/21/25 13:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg	-		03/21/25 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg	-		03/20/25 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg	-	03/19/25 14:41	03/20/25 13:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 13:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	03/19/25 14:41	03/20/25 13:54	1
o-Terphenyl	122		70 - 130	03/19/25 14:41	03/20/25 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		10.0	0.397	mg/Kg	-		03/13/25 18:51	1

Client Sample ID: S-38-0-1'

Lab Sample ID: 880-55599-14

Date Collected: 03/11/25 12:20

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600		49.7	1.96	mg/Kg	-		03/13/25 19:08	5

Client Sample ID: S-38-1'-2'

Lab Sample ID: 880-55599-15

Date Collected: 03/11/25 12:30

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		9.92	0.392	mg/Kg	-		03/13/25 19:14	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-38-2'-3'

Lab Sample ID: 880-55599-16

Date Collected: 03/11/25 12:40

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		03/21/25 08:38	03/21/25 13:46	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		03/21/25 08:38	03/21/25 13:46	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		03/21/25 08:38	03/21/25 13:46	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 08:38	03/21/25 13:46	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		03/21/25 08:38	03/21/25 13:46	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 08:38	03/21/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/21/25 08:38	03/21/25 13:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/21/25 08:38	03/21/25 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			03/21/25 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/20/25 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 14:41	03/20/25 14:12	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	03/19/25 14:41	03/20/25 14:12	1
o-Terphenyl	142	S1+	70 - 130	03/19/25 14:41	03/20/25 14:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		10.0	0.397	mg/Kg			03/13/25 19:20	1

Client Sample ID: S-39-0-1'

Lab Sample ID: 880-55599-17

Date Collected: 03/11/25 13:00

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		9.94	0.393	mg/Kg			03/13/25 19:26	1

Client Sample ID: S-39-1'-2'

Lab Sample ID: 880-55599-18

Date Collected: 03/11/25 13:10

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		03/13/25 11:24	03/13/25 14:04	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		03/13/25 11:24	03/13/25 14:04	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		03/13/25 11:24	03/13/25 14:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-39-1'-2'

Lab Sample ID: 880-55599-18

Date Collected: 03/11/25 13:10

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		03/13/25 11:24	03/13/25 14:04	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		03/13/25 11:24	03/13/25 14:04	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		03/13/25 11:24	03/13/25 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/13/25 11:24	03/13/25 14:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130				03/13/25 11:24	03/13/25 14:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			03/13/25 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/13/25 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/13/25 08:06	03/13/25 16:50	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:06	03/13/25 16:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:06	03/13/25 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/13/25 08:06	03/13/25 16:50	1
o-Terphenyl	68	S1-	70 - 130				03/13/25 08:06	03/13/25 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.0		9.98	0.394	mg/Kg			03/13/25 19:32	1

Client Sample ID: S-39-2'-3'

Lab Sample ID: 880-55599-19

Date Collected: 03/11/25 13:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 08:38	03/21/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/21/25 08:38	03/21/25 14:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 08:38	03/21/25 14:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/21/25 14:07	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-39-2'-3'

Lab Sample ID: 880-55599-19

Date Collected: 03/11/25 13:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/20/25 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/19/25 14:41	03/20/25 14:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				03/19/25 14:41	03/20/25 14:30	1
o-Terphenyl	159	S1+	70 - 130				03/19/25 14:41	03/20/25 14:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.30	J	10.0	0.397	mg/Kg			03/13/25 19:38	1

Client Sample ID: S-40-0-1'

Lab Sample ID: 880-55599-20

Date Collected: 03/11/25 13:40

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		100	3.95	mg/Kg			03/13/25 19:43	10

Client Sample ID: S-40-1'-2'

Lab Sample ID: 880-55599-21

Date Collected: 03/11/25 13:50

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/13/25 11:24	03/13/25 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/13/25 11:24	03/13/25 16:26	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/13/25 11:24	03/13/25 16:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/13/25 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/13/25 17:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-40-1'-2'

Date Collected: 03/11/25 13:50

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/13/25 08:06	03/13/25 17:04	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/13/25 08:06	03/13/25 17:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/13/25 08:06	03/13/25 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03/13/25 08:06	03/13/25 17:04	1
o-Terphenyl	67	S1-	70 - 130	03/13/25 08:06	03/13/25 17:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4240		49.7	1.96	mg/Kg			03/13/25 19:49	5

Client Sample ID: S-40-2'-3'

Date Collected: 03/11/25 14:00

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-22

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950		49.6	1.96	mg/Kg			03/14/25 11:18	5

Client Sample ID: S-25-0-1'

Date Collected: 03/12/25 14:10

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-23

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		10.0	0.397	mg/Kg			03/13/25 20:00	1

Client Sample ID: S-25-1'-2'

Date Collected: 03/12/25 14:20

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-24

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		9.98	0.394	mg/Kg			03/13/25 20:18	1

Client Sample ID: S-25-2'-3'

Date Collected: 03/12/25 14:30

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-25

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.1	0.398	mg/Kg			03/13/25 20:23	1

Client Sample ID: S-25-3'-4'

Date Collected: 03/12/25 09:50

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-26

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		9.94	0.393	mg/Kg			03/13/25 20:29	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-25-4'-5'

Lab Sample ID: 880-55599-27

Date Collected: 03/12/25 10:00

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		9.98	0.394	mg/Kg			03/13/25 20:35	1

Client Sample ID: H-18-0-1'

Lab Sample ID: 880-55599-28

Date Collected: 03/12/25 10:10

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/21/25 08:38	03/21/25 14:27	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 08:38	03/21/25 14:27	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 08:38	03/21/25 14:27	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 08:38	03/21/25 14:27	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 08:38	03/21/25 14:27	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 08:38	03/21/25 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/21/25 08:38	03/21/25 14:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/21/25 08:38	03/21/25 14:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/21/25 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/20/25 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 14:41	03/20/25 14:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:41	03/20/25 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	03/19/25 14:41	03/20/25 14:48	1
o-Terphenyl	147	S1+	70 - 130	03/19/25 14:41	03/20/25 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.8		10.0	0.396	mg/Kg			03/13/25 20:41	1

Client Sample ID: S-38-3'-4'

Lab Sample ID: 880-55599-29

Date Collected: 03/12/25 10:20

Matrix: Solid

Date Received: 03/13/25 09:50

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178	F1	10.0	0.395	mg/Kg			03/13/25 20:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-38-4'-5'

Date Collected: 03/12/25 10:30

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-30

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		9.92	0.392	mg/Kg			03/13/25 21:04	1

Client Sample ID: S-28-5'-6'

Date Collected: 03/12/25 11:40

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-31

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		10.0	0.397	mg/Kg			03/13/25 21:09	1

Client Sample ID: S-34-5'-6'

Date Collected: 03/12/25 12:00

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-32

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	347		9.94	0.393	mg/Kg			03/14/25 03:25	1

Client Sample ID: S-39-3'-4'

Date Collected: 03/12/25 12:05

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-33

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.9		9.92	0.392	mg/Kg			03/14/25 03:31	1

Client Sample ID: S-39-4'-5'

Date Collected: 03/12/25 12:10

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-34

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.4		10.0	0.397	mg/Kg			03/14/25 03:37	1

Client Sample ID: S-40-3'-4'

Date Collected: 03/12/25 12:15

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-35

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		9.94	0.393	mg/Kg			03/14/25 03:43	1

Client Sample ID: S-40-4'-5'

Date Collected: 03/12/25 12:20

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-36

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 15:54	03/21/25 17:36	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:54	03/21/25 17:36	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:54	03/21/25 17:36	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:54	03/21/25 17:36	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-40-4'-5'

Lab Sample ID: 880-55599-36

Date Collected: 03/12/25 12:20

Matrix: Solid

Date Received: 03/13/25 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg	-	03/21/25 15:54	03/21/25 17:36	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg	-	03/21/25 15:54	03/21/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/21/25 15:54	03/21/25 17:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/21/25 15:54	03/21/25 17:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg	-		03/21/25 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg	-		03/20/25 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg	-	03/19/25 14:41	03/20/25 15:05	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 15:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg	-	03/19/25 14:41	03/20/25 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				03/19/25 14:41	03/20/25 15:05	1
o-Terphenyl	163	S1+	70 - 130				03/19/25 14:41	03/20/25 15:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		9.98	0.394	mg/Kg	-		03/14/25 03:49	1

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-55403-1	H-1-0-1'	108	94
880-55403-2	H-2-0-1'	109	95
880-55403-3	H-3-0-1'	114	94
880-55403-4	H-4-0-1'	110	98
880-55403-5	H-5-0-1'	110	96
880-55403-6	H-7-0-1'	109	95
880-55403-7	H-14-0-1'	114	97
880-55403-8	H-21-0-1'	111	95
880-55403-9	H-23-0-1'	108	94
880-55403-10	H-18-0-1'	94	93
880-55502-1	H-6-0-1'	97	95
880-55502-2	H-8-0-1'	97	92
880-55502-3	H-10-0-1'	98	94
880-55502-4	H-11-0-1'	101	82
880-55502-5	H-12-0-1'	100	73
880-55502-6	H-13-0-1'	101	94
880-55502-7	H-15-0-1'	99	93
880-55502-8	H-16-0-1'	98	94
880-55502-9	H-18-0-1'	99	94
880-55502-10	H-19-0-1'	101	93
880-55502-11	H-20-0-1'	97	92
880-55502-12	H-22-0-1'	100	93
880-55502-15	S-29-2'-3'	100	85
880-55502-15 MS	S-29-2'-3'	109	92
880-55502-15 MSD	S-29-2'-3'	103	87
880-55502-16	S-24-0-1'	109	87
880-55502-19	S-26-0'-1'	103	89
880-55502-22	S-27-0-1'	101	88
880-55502-29	S-30-2'-3'	101	87
880-55502-32	S-31-2'-3'	106	91
880-55502-35	S-32-2'-3'	109	85
880-55502-38	S-33-2'-3'	100	89
880-55502-39	S-35-0-1'	103	89
880-55502-44	S-36-2'-3'	104	90
880-55599-4	H-9-0-1'	96	91
880-55599-4 MS	H-9-0-1'	123	90
880-55599-4 MSD	H-9-0-1'	112	90
880-55599-5	H-10-0-1'	99	92
880-55599-6	H-17-0-1'	105	77
880-55599-8	S-28-4'-5'	103	95
880-55599-10	S-34-4'-5'	111	77
880-55599-11	S-37-0-1'	100	95
880-55599-13	S-37-2'-3'	101	81
880-55599-16	S-38-2'-3'	110	98
880-55599-18	S-39-1'-2'	99	87
880-55599-19	S-39-2'-3'	100	92
880-55599-21	S-40-1'-2'	104	89
880-55599-28	H-18-0-1'	99	90
880-55599-36	S-40-4'-5'	100	99

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 880-55599-2

Project/Site: Tomahawk WC Unit 714

SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-105096/1-A	Lab Control Sample	98	105
LCS 880-105201/1-A	Lab Control Sample	98	94
LCS 880-105578/1-A	Lab Control Sample	107	105
LCS 880-105579/1-A	Lab Control Sample	100	94
LCS 880-105643/1-A	Lab Control Sample	99	100
LCS 880-105729/1-A	Lab Control Sample	115	102
LCS 880-105749/1-A	Lab Control Sample	93	100
LCSD 880-105096/2-A	Lab Control Sample Dup	95	103
LCSD 880-105201/2-A	Lab Control Sample Dup	96	95
LCSD 880-105578/2-A	Lab Control Sample Dup	115	93
LCSD 880-105579/2-A	Lab Control Sample Dup	98	93
LCSD 880-105643/2-A	Lab Control Sample Dup	100	99
LCSD 880-105729/2-A	Lab Control Sample Dup	98	100
LCSD 880-105749/2-A	Lab Control Sample Dup	101	102
MB 880-105096/5-A	Method Blank	106	84
MB 880-105201/5-A	Method Blank	96	82
MB 880-105556/5-A	Method Blank	91	90
MB 880-105578/5-A	Method Blank	94	88
MB 880-105579/5-A	Method Blank	95	81
MB 880-105642/5-A	Method Blank	93	89
MB 880-105729/5-A	Method Blank	91	88
MB 880-105749/5-A	Method Blank	104	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55403-1	H-1-0-1'	84	79
880-55403-1 MS	H-1-0-1'	81	74
880-55403-1 MSD	H-1-0-1'	85	77
880-55403-2	H-2-0-1'	77	76
880-55403-3	H-3-0-1'	160 S1+	157 S1+
880-55403-4	H-4-0-1'	130	126
880-55403-5	H-5-0-1'	144 S1+	136 S1+
880-55403-6	H-7-0-1'	94	90
880-55403-7	H-14-0-1'	77	72
880-55403-8	H-21-0-1'	79	76
880-55403-9	H-23-0-1'	71	70
880-55403-10	H-18-0-1'	178 S1+	183 S1+
880-55502-1	H-6-0-1'	476 S1+	492 S1+
880-55502-2	H-8-0-1'	163 S1+	165 S1+
880-55502-3	H-10-0-1'	148 S1+	150 S1+
880-55502-4	H-11-0-1'	172 S1+	173 S1+
880-55502-5	H-12-0-1'	162 S1+	163 S1+
880-55502-6	H-13-0-1'	159 S1+	158 S1+

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 880-55599-2

Project/Site: Tomahawk WC Unit 714

SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-55502-7	H-15-0-1'	179 S1+	174 S1+
880-55502-7 MS	H-15-0-1'	102	99
880-55502-7 MSD	H-15-0-1'	102	99
880-55502-8	H-16-0-1'	227 S1+	213 S1+
880-55502-9	H-18-0-1'	181 S1+	179 S1+
880-55502-10	H-19-0-1'	194 S1+	189 S1+
880-55502-11	H-20-0-1'	250 S1+	223 S1+
880-55502-12	H-22-0-1'	234 S1+	226 S1+
880-55502-15	S-29-2'-3'	272 S1+	247 S1+
880-55502-16	S-24-0-1'	237 S1+	218 S1+
880-55502-19	S-26-0'-1'	225 S1+	205 S1+
880-55502-22	S-27-0-1'	166 S1+	154 S1+
880-55502-29	S-30-2'-3'	293 S1+	303 S1+
880-55502-29 MS	S-30-2'-3'	183 S1+	178 S1+
880-55502-29 MSD	S-30-2'-3'	185 S1+	181 S1+
880-55502-32	S-31-2'-3'	162 S1+	169 S1+
880-55502-35	S-32-2'-3'	169 S1+	174 S1+
880-55502-38	S-33-2'-3'	162 S1+	167 S1+
880-55502-39	S-35-0-1'	160 S1+	167 S1+
880-55502-44	S-36-2'-3'	168 S1+	175 S1+
880-55599-4	H-9-0-1'	155 S1+	163 S1+
880-55599-5	H-10-0-1'	168 S1+	177 S1+
880-55599-6	H-17-0-1'	165 S1+	176 S1+
880-55599-8	S-28-4'-5'	163 S1+	171 S1+
880-55599-10	S-34-4'-5'	154 S1+	162 S1+
880-55599-11	S-37-0-1'	152 S1+	158 S1+
880-55599-13	S-37-2'-3'	122	122
880-55599-16	S-38-2'-3'	140 S1+	142 S1+
880-55599-18	S-39-1'-2'	78	68 S1-
880-55599-19	S-39-2'-3'	155 S1+	159 S1+
880-55599-21	S-40-1'-2'	75	67 S1-
880-55599-28	H-18-0-1'	140 S1+	147 S1+
880-55599-36	S-40-4'-5'	160 S1+	163 S1+
LCS 880-105195/2-A	Lab Control Sample	145 S1+	129
LCS 880-105277/2-A	Lab Control Sample	121	119
LCS 880-105580/2-A	Lab Control Sample	137 S1+	135 S1+
LCS 880-105588/2-A	Lab Control Sample	128	126
LCS 880-105620/2-A	Lab Control Sample	135 S1+	137 S1+
LCS 880-105811/2-A	Lab Control Sample	128	107
LCS 880-105952/2-A	Lab Control Sample	122	113
LCSD 880-105195/3-A	Lab Control Sample Dup	135 S1+	119
LCSD 880-105277/3-A	Lab Control Sample Dup	123	123
LCSD 880-105580/3-A	Lab Control Sample Dup	138 S1+	136 S1+
LCSD 880-105588/3-A	Lab Control Sample Dup	128	126
LCSD 880-105620/3-A	Lab Control Sample Dup	136 S1+	135 S1+
LCSD 880-105811/3-B	Lab Control Sample Dup	98	104
LCSD 880-105952/3-A	Lab Control Sample Dup	122	112
MB 880-105195/1-A	Method Blank	101	91
MB 880-105277/1-A	Method Blank	102	92
MB 880-105580/1-A	Method Blank	111	116

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-105588/1-A	Method Blank	164 S1+	172 S1+
MB 880-105620/1-A	Method Blank	175 S1+	184 S1+
MB 880-105811/1-A	Method Blank	127	113
MB 880-105952/1-A	Method Blank	107	104
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-105096/5-A

Matrix: Solid

Analysis Batch: 105095

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/12/25 08:19	03/12/25 11:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/12/25 08:19	03/12/25 11:27	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/12/25 08:19	03/12/25 11:27	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/12/25 08:19	03/12/25 11:27	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/12/25 08:19	03/12/25 11:27	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/12/25 08:19	03/12/25 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/12/25 08:19	03/12/25 11:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/12/25 08:19	03/12/25 11:27	1

Lab Sample ID: LCS 880-105096/1-A

Matrix: Solid

Analysis Batch: 105095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09677		mg/Kg		97	70 - 130
Toluene	0.100	0.09365		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08526		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1696		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08545		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-105096/2-A

Matrix: Solid

Analysis Batch: 105095

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105096

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09606		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.09210		mg/Kg		92	70 - 130	2	35
Ethylbenzene	0.100	0.08377		mg/Kg		84	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130	2	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-105201/5-A

Matrix: Solid

Analysis Batch: 105190

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/13/25 08:17	03/13/25 10:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/13/25 08:17	03/13/25 10:38	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-105201/5-A

Matrix: Solid

Analysis Batch: 105190

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/13/25 08:17	03/13/25 10:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/13/25 08:17	03/13/25 10:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/13/25 08:17	03/13/25 10:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/13/25 08:17	03/13/25 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/13/25 08:17	03/13/25 10:38	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/13/25 08:17	03/13/25 10:38	1

Lab Sample ID: LCS 880-105201/1-A

Matrix: Solid

Analysis Batch: 105190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08902		mg/Kg		89	70 - 130
Toluene	0.100	0.07719		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.08308		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1663		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08396		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-105201/2-A

Matrix: Solid

Analysis Batch: 105190

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105201

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09003		mg/Kg		90	70 - 130	1	35
Toluene	0.100	0.07817		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08369		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1679		mg/Kg		84	70 - 130	1	35
o-Xylene	0.100	0.08448		mg/Kg		84	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-105556/5-A

Matrix: Solid

Analysis Batch: 105552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 10:04	03/19/25 12:02	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 10:04	03/19/25 12:02	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 10:04	03/19/25 12:02	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 10:04	03/19/25 12:02	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-105556/5-A

Matrix: Solid

Analysis Batch: 105552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 10:04	03/19/25 12:02	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 10:04	03/19/25 12:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/19/25 10:04	03/19/25 12:02	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/19/25 10:04	03/19/25 12:02	1

Lab Sample ID: MB 880-105578/5-A

Matrix: Solid

Analysis Batch: 105552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 13:24	03/19/25 22:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/19/25 13:24	03/19/25 22:40	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/19/25 13:24	03/19/25 22:40	1

Lab Sample ID: LCS 880-105578/1-A

Matrix: Solid

Analysis Batch: 105552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09666		mg/Kg		97	70 - 130
Toluene	0.100	0.09648		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09565		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1916		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09466		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		70 - 130				
1,4-Difluorobenzene (Surr)	105		70 - 130				

Lab Sample ID: LCSD 880-105578/2-A

Matrix: Solid

Analysis Batch: 105552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09540		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.09598		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.09644		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2242		mg/Kg		112	70 - 130	16	35
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130	15	35

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-105579/5-A

Matrix: Solid

Analysis Batch: 105631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105579

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/19/25 13:36	03/20/25 14:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/19/25 13:36	03/20/25 14:00	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/19/25 13:36	03/20/25 14:00	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 13:36	03/20/25 14:00	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/19/25 13:36	03/20/25 14:00	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/19/25 13:36	03/20/25 14:00	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		70 - 130	03/19/25 13:36	03/20/25 14:00	1			
1,4-Difluorobenzene (Surr)	81		70 - 130	03/19/25 13:36	03/20/25 14:00	1			

Lab Sample ID: LCS 880-105579/1-A

Matrix: Solid

Analysis Batch: 105631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105579

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09002		mg/Kg		90	70 - 130		
Toluene	0.100	0.07919		mg/Kg		79	70 - 130		
Ethylbenzene	0.100	0.08325		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	0.200	0.1708		mg/Kg		85	70 - 130		
o-Xylene	0.100	0.08718		mg/Kg		87	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-105579/2-A

Matrix: Solid

Analysis Batch: 105631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105579

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09132		mg/Kg		91	70 - 130	1	35	
Toluene	0.100	0.08000		mg/Kg		80	70 - 130	1	35	
Ethylbenzene	0.100	0.08383		mg/Kg		84	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1718		mg/Kg		86	70 - 130	1	35	
o-Xylene	0.100	0.08780		mg/Kg		88	70 - 130	1	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: 880-55502-15 MS

Matrix: Solid

Analysis Batch: 105631

Client Sample ID: S-29-2'-3'

Prep Type: Total/NA

Prep Batch: 105579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.07447		mg/Kg		74	70 - 130
Toluene	<0.00200	U F1	0.100	0.06439	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.00109	U F1	0.100	0.06603	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.1338	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00158	U F1	0.100	0.06882	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-55502-15 MSD

Matrix: Solid

Analysis Batch: 105631

Client Sample ID: S-29-2'-3'

Prep Type: Total/NA

Prep Batch: 105579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.07161		mg/Kg		72	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.06296	F1	mg/Kg		63	70 - 130	2	35
Ethylbenzene	<0.00109	U F1	0.100	0.06640	F1	mg/Kg		66	70 - 130	1	35
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.1316	F1	mg/Kg		66	70 - 130	2	35
o-Xylene	<0.00158	U F1	0.100	0.06662	F1	mg/Kg		67	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-105642/5-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/20/25 09:18	03/20/25 11:52	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/20/25 09:18	03/20/25 11:52	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/20/25 09:18	03/20/25 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/20/25 09:18	03/20/25 11:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/20/25 09:18	03/20/25 11:52	1

Lab Sample ID: LCS 880-105643/1-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09020		mg/Kg		90	70 - 130
Toluene	0.100	0.08937		mg/Kg		89	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-105643/1-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.08593		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1737		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08345		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-105643/2-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09435		mg/Kg		94	70 - 130	5	35
Toluene	0.100	0.09146		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.08733		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130	2	35
o-Xylene	0.100	0.08528		mg/Kg		85	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-105729/5-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 08:38	03/21/25 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/21/25 08:38	03/21/25 11:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/21/25 08:38	03/21/25 11:01	1

Lab Sample ID: LCS 880-105729/1-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2189		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-105729/1-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-105729/2-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	0	35
Toluene	0.100	0.09238		mg/Kg		92	70 - 130	11	35
Ethylbenzene	0.100	0.09147		mg/Kg		91	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1857		mg/Kg		93	70 - 130	16	35
o-Xylene	0.100	0.08891		mg/Kg		89	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-55599-4 MS

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: H-9-0-1'

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.1272		mg/Kg		127	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2555		mg/Kg		128	70 - 130
o-Xylene	<0.00158	U	0.100	0.1232		mg/Kg		123	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-55599-4 MSD

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: H-9-0-1'

Prep Type: Total/NA

Prep Batch: 105729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00139	U	0.100	0.09529		mg/Kg		95	70 - 130	18	35
Toluene	<0.00200	U	0.100	0.09777		mg/Kg		98	70 - 130	5	35
Ethylbenzene	<0.00109	U	0.100	0.1012		mg/Kg		101	70 - 130	23	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2013		mg/Kg		101	70 - 130	24	35
o-Xylene	<0.00158	U	0.100	0.09662		mg/Kg		97	70 - 130	24	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: 880-55599-4 MSD

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: H-9-0-1'

Prep Type: Total/NA

Prep Batch: 105729

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-105749/5-A

Matrix: Solid

Analysis Batch: 105721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105749

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 09:56	03/21/25 12:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 09:56	03/21/25 12:27	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 09:56	03/21/25 12:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 09:56	03/21/25 12:27	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 09:56	03/21/25 12:27	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 09:56	03/21/25 12:27	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	03/21/25 09:56	03/21/25 12:27	1
1,4-Difluorobenzene (Surr)	03/21/25 09:56	03/21/25 12:27	1

Lab Sample ID: LCS 880-105749/1-A

Matrix: Solid

Analysis Batch: 105721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105749

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Benzene	0.100	0.09519		mg/Kg		95		70 - 130	
Toluene	0.100	0.09579		mg/Kg		96		70 - 130	
Ethylbenzene	0.100	0.08643		mg/Kg		86		70 - 130	
m-Xylene & p-Xylene	0.200	0.1751		mg/Kg		88		70 - 130	
o-Xylene	0.100	0.08776		mg/Kg		88		70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-105749/2-A

Matrix: Solid

Analysis Batch: 105721

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105749

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1010		mg/Kg		101		70 - 130	6	35
Toluene	0.100	0.1019		mg/Kg		102		70 - 130	6	35
Ethylbenzene	0.100	0.09175		mg/Kg		92		70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93		70 - 130	6	35
o-Xylene	0.100	0.09378		mg/Kg		94		70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-105749/2-A

Matrix: Solid

Analysis Batch: 105721

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105749

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

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

Lab Sample ID: MB 880-105195/1-A

Matrix: Solid

Analysis Batch: 105218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105195

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/13/25 08:04	03/13/25 09:53	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:04	03/13/25 09:53	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/13/25 08:04	03/13/25 09:53	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
1-Chlorooctane	101		70 - 130				03/13/25 08:04	03/13/25 09:53	1
o-Terphenyl	91		70 - 130				03/13/25 08:04	03/13/25 09:53	1

Lab Sample ID: LCS 880-105195/2-A

Matrix: Solid

Analysis Batch: 105218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105195

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	1282		mg/Kg		128	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	1281		mg/Kg		128	70 - 130	
Surrogate	LCS	LCS							
	%Recovery	Qualifier	Limits						
1-Chlorooctane	145	S1+	70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: LCSD 880-105195/3-A

Matrix: Solid

Analysis Batch: 105218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105195

Analyte		Spike	LCSD	LCSD				%Rec	RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1186		mg/Kg		119	70 - 130	8 20
Diesel Range Organics (Over C10-C28)		1000	1190		mg/Kg		119	70 - 130	7 20
Surrogate	LCSD	LCSD							
	%Recovery	Qualifier	Limits						
1-Chlorooctane	135	S1+	70 - 130						
o-Terphenyl	119		70 - 130						

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: 880-55403-1 MS

Matrix: Solid

Analysis Batch: 105218

Client Sample ID: H-1-0-1'

Prep Type: Total/NA

Prep Batch: 105195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	803.5		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	68.8	F1	999	735.3	F1	mg/Kg		67	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	81		70 - 130						
o-Terphenyl	74		70 - 130						

Lab Sample ID: 880-55403-1 MSD

Matrix: Solid

Analysis Batch: 105218

Client Sample ID: H-1-0-1'

Prep Type: Total/NA

Prep Batch: 105195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	812.0		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	68.8	F1	999	808.9		mg/Kg		74	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	77		70 - 130								

Lab Sample ID: MB 880-105277/1-A

Matrix: Solid

Analysis Batch: 105297

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/14/25 08:14	03/14/25 09:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/14/25 08:14	03/14/25 09:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/14/25 08:14	03/14/25 09:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/14/25 08:14	03/14/25 09:41	1
o-Terphenyl	92		70 - 130				03/14/25 08:14	03/14/25 09:41	1

Lab Sample ID: LCS 880-105277/2-A

Matrix: Solid

Analysis Batch: 105297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1084		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1105		mg/Kg		110	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-105277/2-A

Matrix: Solid

Analysis Batch: 105297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105277

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-105277/3-A

Matrix: Solid

Analysis Batch: 105297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1089		mg/Kg		109	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: MB 880-105580/1-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 13:39	03/20/25 17:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 13:39	03/20/25 17:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 13:39	03/20/25 17:32	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	111		70 - 130	03/19/25 13:39	03/20/25 17:32	1
o-Terphenyl	116		70 - 130	03/19/25 13:39	03/20/25 17:32	1

Lab Sample ID: LCS 880-105580/2-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105580

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1117		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1213		mg/Kg		121	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	135	S1+	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-105580/3-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1156		mg/Kg		116	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1218		mg/Kg		122	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	138	S1+	70 - 130						
o-Terphenyl	136	S1+	70 - 130						

Lab Sample ID: MB 880-105588/1-A

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/19/25 14:40	03/20/25 06:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:40	03/20/25 06:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/19/25 14:40	03/20/25 06:09	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130				03/19/25 14:40	03/20/25 06:09	1
o-Terphenyl	172	S1+	70 - 130				03/19/25 14:40	03/20/25 06:09	1

Lab Sample ID: LCS 880-105588/2-A

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1165		mg/Kg		116	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: LCSD 880-105588/3-A

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1116		mg/Kg		112	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1180		mg/Kg		118	70 - 130	1	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-105588/3-A

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105588

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 880-55502-29 MS

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: S-30-2'-3'

Prep Type: Total/NA

Prep Batch: 105588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	995	1062		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	995	1163		mg/Kg		117	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	183	S1+	70 - 130						
o-Terphenyl	178	S1+	70 - 130						

Lab Sample ID: 880-55502-29 MSD

Matrix: Solid

Analysis Batch: 105638

Client Sample ID: S-30-2'-3'

Prep Type: Total/NA

Prep Batch: 105588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	995	1082		mg/Kg		109	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<15.0	U	995	1198		mg/Kg		120	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	185	S1+	70 - 130								
o-Terphenyl	181	S1+	70 - 130								

Lab Sample ID: MB 880-105620/1-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	175	S1+	70 - 130				03/20/25 08:21	03/20/25 06:09	1
o-Terphenyl	184	S1+	70 - 130				03/20/25 08:21	03/20/25 06:09	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-105620/2-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1111		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1235		mg/Kg		123	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	135	S1+	70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-105620/3-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1156		mg/Kg		116	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1226		mg/Kg		123	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	136	S1+	70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: MB 880-105811/1-A

Matrix: Solid

Analysis Batch: 105866

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14.62	J	50.0	14.5	mg/Kg		03/21/25 16:25	03/24/25 09:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 16:25	03/24/25 09:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 16:25	03/24/25 09:34	1
Surrogate	%Recovery	MB Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCS 880-105811/2-A

Matrix: Solid

Analysis Batch: 105866

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.2		mg/Kg		95	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-105811/2-A
Matrix: Solid
Analysis Batch: 105866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105811

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-105811/3-B
Matrix: Solid
Analysis Batch: 105866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105811

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	910.5		mg/Kg		91	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	928.1		mg/Kg		93	70 - 130	2	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: 880-55502-7 MS
Matrix: Solid
Analysis Batch: 105866

Client Sample ID: H-15-0-1'
Prep Type: Total/NA
Prep Batch: 105811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	916.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	996	955.9		mg/Kg		96	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: 880-55502-7 MSD
Matrix: Solid
Analysis Batch: 105866

Client Sample ID: H-15-0-1'
Prep Type: Total/NA
Prep Batch: 105811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	926.2		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	996	949.7		mg/Kg		95	70 - 130	1	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	99		70 - 130								

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-105952/1-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/25/25 07:32	03/25/25 04:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/25/25 07:32	03/25/25 04:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/25/25 07:32	03/25/25 04:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/25/25 07:32	03/25/25 04:42	1
o-Terphenyl	104		70 - 130	03/25/25 07:32	03/25/25 04:42	1

Lab Sample ID: LCS 880-105952/2-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	957.4		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-105952/3-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	937.1		mg/Kg		94	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	954.2		mg/Kg		95	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	112		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104934/1-A

Matrix: Solid

Analysis Batch: 104988

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/11/25 08:43	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-104934/2-A
Matrix: Solid
Analysis Batch: 104988

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-104934/3-A
Matrix: Solid
Analysis Batch: 104988

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	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-105057/1-A
Matrix: Solid
Analysis Batch: 105061

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/12/25 05:59	1

Lab Sample ID: LCS 880-105057/2-A
Matrix: Solid
Analysis Batch: 105061

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.2		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-105057/3-A
Matrix: Solid
Analysis Batch: 105061

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	266.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-55502-1 MS
Matrix: Solid
Analysis Batch: 105061

Client Sample ID: H-6-0-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	86.4	F1	248	384.6	F1	mg/Kg		120	90 - 110

Lab Sample ID: 880-55502-1 MSD
Matrix: Solid
Analysis Batch: 105061

Client Sample ID: H-6-0-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	86.4	F1	248	386.0	F1	mg/Kg		121	90 - 110	0	20

Lab Sample ID: 880-55502-11 MS
Matrix: Solid
Analysis Batch: 105061

Client Sample ID: H-20-0-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	118	F1	248	414.0	F1	mg/Kg		120	90 - 110

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55502-11 MSD

Matrix: Solid

Analysis Batch: 105061

Client Sample ID: H-20-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118	F1	248	410.5	F1	mg/Kg		118	90 - 110	1	20

Lab Sample ID: MB 880-105058/1-A

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/12/25 03:55	1

Lab Sample ID: LCS 880-105058/2-A

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-105058/3-A

Matrix: Solid

Analysis Batch: 105064

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	260.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-55502-31 MS

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: S-31-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	201	F1	251	499.2	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-55502-31 MSD

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: S-31-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	201	F1	251	503.0	F1	mg/Kg		121	90 - 110	1	20

Lab Sample ID: 880-55502-42 MS

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: S-36-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	601		252	857.7		mg/Kg		102	90 - 110

Lab Sample ID: 880-55502-42 MSD

Matrix: Solid

Analysis Batch: 105064

Client Sample ID: S-36-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	601		252	875.3		mg/Kg		109	90 - 110	2	20

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105090/1-A

Matrix: Solid

Analysis Batch: 105103

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/12/25 09:27	1

Lab Sample ID: LCS 880-105090/2-A

Matrix: Solid

Analysis Batch: 105103

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-105090/3-A

Matrix: Solid

Analysis Batch: 105103

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	253.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-55502-43 MS

Matrix: Solid

Analysis Batch: 105103

Client Sample ID: S-36-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	98.9		249	371.3		mg/Kg		110	90 - 110

Lab Sample ID: 880-55502-43 MSD

Matrix: Solid

Analysis Batch: 105103

Client Sample ID: S-36-1'-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	98.9		249	371.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-105221/1-A

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/13/25 16:40	1

Lab Sample ID: LCS 880-105221/2-A

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-105221/3-A

Matrix: Solid

Analysis Batch: 105223

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	261.1		mg/Kg		104	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55599-1 MS

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: S-28-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4560	F1	1240	6227	F1	mg/Kg		135	90 - 110		

Lab Sample ID: 880-55599-1 MSD

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: S-28-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4560	F1	1240	6233	F1	mg/Kg		135	90 - 110	0	20

Lab Sample ID: 880-55599-11 MS

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: S-37-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	387		250	662.2		mg/Kg		110	90 - 110		

Lab Sample ID: 880-55599-11 MSD

Matrix: Solid

Analysis Batch: 105223

Client Sample ID: S-37-0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	387		250	662.2		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-105222/1-A

Matrix: Solid

Analysis Batch: 105241

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/13/25 19:09	1

Lab Sample ID: LCS 880-105222/2-A

Matrix: Solid

Analysis Batch: 105241

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-105222/3-A

Matrix: Solid

Analysis Batch: 105241

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	259.9		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-55599-29 MS

Matrix: Solid

Analysis Batch: 105241

Client Sample ID: S-38-3'-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	178	F1	250	456.7	F1	mg/Kg		111	90 - 110		

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55599-29 MSD							Client Sample ID: S-38-3'-4'					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 105241												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	178	F1	250	460.6	F1	mg/Kg		113	90 - 110	1	20	

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC VOA

Analysis Batch: 105095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	8021B	105096
880-55403-2	H-2-0-1'	Total/NA	Solid	8021B	105096
880-55403-3	H-3-0-1'	Total/NA	Solid	8021B	105096
880-55403-4	H-4-0-1'	Total/NA	Solid	8021B	105096
880-55403-5	H-5-0-1'	Total/NA	Solid	8021B	105096
880-55403-6	H-7-0-1'	Total/NA	Solid	8021B	105096
880-55403-7	H-14-0-1'	Total/NA	Solid	8021B	105096
880-55403-8	H-21-0-1'	Total/NA	Solid	8021B	105096
880-55403-9	H-23-0-1'	Total/NA	Solid	8021B	105096
MB 880-105096/5-A	Method Blank	Total/NA	Solid	8021B	105096
LCS 880-105096/1-A	Lab Control Sample	Total/NA	Solid	8021B	105096
LCSD 880-105096/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105096

Prep Batch: 105096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	5030B	
880-55403-2	H-2-0-1'	Total/NA	Solid	5030B	
880-55403-3	H-3-0-1'	Total/NA	Solid	5030B	
880-55403-4	H-4-0-1'	Total/NA	Solid	5030B	
880-55403-5	H-5-0-1'	Total/NA	Solid	5030B	
880-55403-6	H-7-0-1'	Total/NA	Solid	5030B	
880-55403-7	H-14-0-1'	Total/NA	Solid	5030B	
880-55403-8	H-21-0-1'	Total/NA	Solid	5030B	
880-55403-9	H-23-0-1'	Total/NA	Solid	5030B	
MB 880-105096/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105096/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105096/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 105190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-18	S-39-1'-2'	Total/NA	Solid	8021B	105201
880-55599-21	S-40-1'-2'	Total/NA	Solid	8021B	105201
MB 880-105201/5-A	Method Blank	Total/NA	Solid	8021B	105201
LCS 880-105201/1-A	Lab Control Sample	Total/NA	Solid	8021B	105201
LCSD 880-105201/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105201

Prep Batch: 105201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-18	S-39-1'-2'	Total/NA	Solid	5030B	
880-55599-21	S-40-1'-2'	Total/NA	Solid	5030B	
MB 880-105201/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105201/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105201/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 105208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	Total BTEX	
880-55403-2	H-2-0-1'	Total/NA	Solid	Total BTEX	
880-55403-3	H-3-0-1'	Total/NA	Solid	Total BTEX	
880-55403-4	H-4-0-1'	Total/NA	Solid	Total BTEX	
880-55403-5	H-5-0-1'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 105208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-6	H-7-0-1'	Total/NA	Solid	Total BTEX	
880-55403-7	H-14-0-1'	Total/NA	Solid	Total BTEX	
880-55403-8	H-21-0-1'	Total/NA	Solid	Total BTEX	
880-55403-9	H-23-0-1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 105294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-18	S-39-1'-2'	Total/NA	Solid	Total BTEX	
880-55599-21	S-40-1'-2'	Total/NA	Solid	Total BTEX	

Analysis Batch: 105552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Total/NA	Solid	8021B	105578
880-55502-2	H-8-0-1'	Total/NA	Solid	8021B	105578
880-55502-3	H-10-0-1'	Total/NA	Solid	8021B	105578
880-55502-4	H-11-0-1'	Total/NA	Solid	8021B	105578
880-55502-5	H-12-0-1'	Total/NA	Solid	8021B	105578
880-55502-6	H-13-0-1'	Total/NA	Solid	8021B	105578
880-55502-7	H-15-0-1'	Total/NA	Solid	8021B	105578
880-55502-8	H-16-0-1'	Total/NA	Solid	8021B	105578
880-55502-9	H-18-0-1'	Total/NA	Solid	8021B	105578
880-55502-10	H-19-0-1'	Total/NA	Solid	8021B	105578
880-55502-11	H-20-0-1'	Total/NA	Solid	8021B	105578
880-55502-12	H-22-0-1'	Total/NA	Solid	8021B	105578
MB 880-105556/5-A	Method Blank	Total/NA	Solid	8021B	105556
MB 880-105578/5-A	Method Blank	Total/NA	Solid	8021B	105578
LCS 880-105578/1-A	Lab Control Sample	Total/NA	Solid	8021B	105578
LCSD 880-105578/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105578

Prep Batch: 105556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-105556/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 105578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Total/NA	Solid	5030B	
880-55502-2	H-8-0-1'	Total/NA	Solid	5030B	
880-55502-3	H-10-0-1'	Total/NA	Solid	5030B	
880-55502-4	H-11-0-1'	Total/NA	Solid	5030B	
880-55502-5	H-12-0-1'	Total/NA	Solid	5030B	
880-55502-6	H-13-0-1'	Total/NA	Solid	5030B	
880-55502-7	H-15-0-1'	Total/NA	Solid	5030B	
880-55502-8	H-16-0-1'	Total/NA	Solid	5030B	
880-55502-9	H-18-0-1'	Total/NA	Solid	5030B	
880-55502-10	H-19-0-1'	Total/NA	Solid	5030B	
880-55502-11	H-20-0-1'	Total/NA	Solid	5030B	
880-55502-12	H-22-0-1'	Total/NA	Solid	5030B	
MB 880-105578/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105578/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105578/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC VOA

Prep Batch: 105579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-15	S-29-2'-3'	Total/NA	Solid	5030B	
880-55502-16	S-24-0-1'	Total/NA	Solid	5030B	
880-55502-19	S-26-0'-1'	Total/NA	Solid	5030B	
880-55502-22	S-27-0-1'	Total/NA	Solid	5030B	
880-55502-29	S-30-2'-3'	Total/NA	Solid	5030B	
880-55502-32	S-31-2'-3'	Total/NA	Solid	5030B	
880-55502-35	S-32-2'-3'	Total/NA	Solid	5030B	
880-55502-38	S-33-2'-3'	Total/NA	Solid	5030B	
880-55502-39	S-35-0-1'	Total/NA	Solid	5030B	
880-55502-44	S-36-2'-3'	Total/NA	Solid	5030B	
MB 880-105579/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105579/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105579/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-55502-15 MS	S-29-2'-3'	Total/NA	Solid	5030B	
880-55502-15 MSD	S-29-2'-3'	Total/NA	Solid	5030B	

Analysis Batch: 105631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-15	S-29-2'-3'	Total/NA	Solid	8021B	105579
880-55502-16	S-24-0-1'	Total/NA	Solid	8021B	105579
880-55502-19	S-26-0'-1'	Total/NA	Solid	8021B	105579
880-55502-22	S-27-0-1'	Total/NA	Solid	8021B	105579
880-55502-29	S-30-2'-3'	Total/NA	Solid	8021B	105579
880-55502-32	S-31-2'-3'	Total/NA	Solid	8021B	105579
880-55502-35	S-32-2'-3'	Total/NA	Solid	8021B	105579
880-55502-38	S-33-2'-3'	Total/NA	Solid	8021B	105579
880-55502-39	S-35-0-1'	Total/NA	Solid	8021B	105579
880-55502-44	S-36-2'-3'	Total/NA	Solid	8021B	105579
MB 880-105579/5-A	Method Blank	Total/NA	Solid	8021B	105579
LCS 880-105579/1-A	Lab Control Sample	Total/NA	Solid	8021B	105579
LCSD 880-105579/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105579
880-55502-15 MS	S-29-2'-3'	Total/NA	Solid	8021B	105579
880-55502-15 MSD	S-29-2'-3'	Total/NA	Solid	8021B	105579

Analysis Batch: 105632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	8021B	105643
MB 880-105642/5-A	Method Blank	Total/NA	Solid	8021B	105642
LCS 880-105643/1-A	Lab Control Sample	Total/NA	Solid	8021B	105643
LCSD 880-105643/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105643

Prep Batch: 105642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-105642/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 105643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	5030B	
LCS 880-105643/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105643/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC VOA

Analysis Batch: 105688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Total/NA	Solid	Total BTEX	
880-55502-2	H-8-0-1'	Total/NA	Solid	Total BTEX	
880-55502-3	H-10-0-1'	Total/NA	Solid	Total BTEX	
880-55502-4	H-11-0-1'	Total/NA	Solid	Total BTEX	
880-55502-5	H-12-0-1'	Total/NA	Solid	Total BTEX	
880-55502-6	H-13-0-1'	Total/NA	Solid	Total BTEX	
880-55502-7	H-15-0-1'	Total/NA	Solid	Total BTEX	
880-55502-8	H-16-0-1'	Total/NA	Solid	Total BTEX	
880-55502-9	H-18-0-1'	Total/NA	Solid	Total BTEX	
880-55502-10	H-19-0-1'	Total/NA	Solid	Total BTEX	
880-55502-11	H-20-0-1'	Total/NA	Solid	Total BTEX	
880-55502-12	H-22-0-1'	Total/NA	Solid	Total BTEX	
880-55502-15	S-29-2'-3'	Total/NA	Solid	Total BTEX	
880-55502-16	S-24-0-1'	Total/NA	Solid	Total BTEX	
880-55502-19	S-26-0'-1'	Total/NA	Solid	Total BTEX	
880-55502-22	S-27-0-1'	Total/NA	Solid	Total BTEX	
880-55502-29	S-30-2'-3'	Total/NA	Solid	Total BTEX	
880-55502-32	S-31-2'-3'	Total/NA	Solid	Total BTEX	
880-55502-35	S-32-2'-3'	Total/NA	Solid	Total BTEX	
880-55502-38	S-33-2'-3'	Total/NA	Solid	Total BTEX	
880-55502-39	S-35-0-1'	Total/NA	Solid	Total BTEX	
880-55502-44	S-36-2'-3'	Total/NA	Solid	Total BTEX	

Analysis Batch: 105692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 105721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-36	S-40-4'-5'	Total/NA	Solid	8021B	105749
MB 880-105749/5-A	Method Blank	Total/NA	Solid	8021B	105749
LCS 880-105749/1-A	Lab Control Sample	Total/NA	Solid	8021B	105749
LCSD 880-105749/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105749

Analysis Batch: 105723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-4	H-9-0-1'	Total/NA	Solid	8021B	105729
880-55599-5	H-10-0-1'	Total/NA	Solid	8021B	105729
880-55599-6	H-17-0-1'	Total/NA	Solid	8021B	105729
880-55599-8	S-28-4'-5'	Total/NA	Solid	8021B	105729
880-55599-10	S-34-4'-5'	Total/NA	Solid	8021B	105729
880-55599-11	S-37-0-1'	Total/NA	Solid	8021B	105729
880-55599-13	S-37-2'-3'	Total/NA	Solid	8021B	105729
880-55599-16	S-38-2'-3'	Total/NA	Solid	8021B	105729
880-55599-19	S-39-2'-3'	Total/NA	Solid	8021B	105729
880-55599-28	H-18-0-1'	Total/NA	Solid	8021B	105729
MB 880-105729/5-A	Method Blank	Total/NA	Solid	8021B	105729
LCS 880-105729/1-A	Lab Control Sample	Total/NA	Solid	8021B	105729
LCSD 880-105729/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105729
880-55599-4 MS	H-9-0-1'	Total/NA	Solid	8021B	105729
880-55599-4 MSD	H-9-0-1'	Total/NA	Solid	8021B	105729

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC VOA

Prep Batch: 105729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-4	H-9-0-1'	Total/NA	Solid	5030B	
880-55599-5	H-10-0-1'	Total/NA	Solid	5030B	
880-55599-6	H-17-0-1'	Total/NA	Solid	5030B	
880-55599-8	S-28-4'-5'	Total/NA	Solid	5030B	
880-55599-10	S-34-4'-5'	Total/NA	Solid	5030B	
880-55599-11	S-37-0-1'	Total/NA	Solid	5030B	
880-55599-13	S-37-2'-3'	Total/NA	Solid	5030B	
880-55599-16	S-38-2'-3'	Total/NA	Solid	5030B	
880-55599-19	S-39-2'-3'	Total/NA	Solid	5030B	
880-55599-28	H-18-0-1'	Total/NA	Solid	5030B	
MB 880-105729/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105729/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105729/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-55599-4 MS	H-9-0-1'	Total/NA	Solid	5030B	
880-55599-4 MSD	H-9-0-1'	Total/NA	Solid	5030B	

Prep Batch: 105749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-36	S-40-4'-5'	Total/NA	Solid	5030B	
MB 880-105749/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105749/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105749/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 105805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-4	H-9-0-1'	Total/NA	Solid	Total BTEX	
880-55599-5	H-10-0-1'	Total/NA	Solid	Total BTEX	
880-55599-6	H-17-0-1'	Total/NA	Solid	Total BTEX	
880-55599-8	S-28-4'-5'	Total/NA	Solid	Total BTEX	
880-55599-10	S-34-4'-5'	Total/NA	Solid	Total BTEX	
880-55599-11	S-37-0-1'	Total/NA	Solid	Total BTEX	
880-55599-13	S-37-2'-3'	Total/NA	Solid	Total BTEX	
880-55599-16	S-38-2'-3'	Total/NA	Solid	Total BTEX	
880-55599-19	S-39-2'-3'	Total/NA	Solid	Total BTEX	
880-55599-28	H-18-0-1'	Total/NA	Solid	Total BTEX	
880-55599-36	S-40-4'-5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 105195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-2	H-2-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-4	H-4-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-7	H-14-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-8	H-21-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-9	H-23-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-18	S-39-1'-2'	Total/NA	Solid	8015NM Prep	
880-55599-21	S-40-1'-2'	Total/NA	Solid	8015NM Prep	
MB 880-105195/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105195/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 105195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-105195/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55403-1 MS	H-1-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-1 MSD	H-1-0-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-2	H-2-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-4	H-4-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-7	H-14-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-8	H-21-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-9	H-23-0-1'	Total/NA	Solid	8015B NM	105195
880-55599-18	S-39-1'-2'	Total/NA	Solid	8015B NM	105195
880-55599-21	S-40-1'-2'	Total/NA	Solid	8015B NM	105195
MB 880-105195/1-A	Method Blank	Total/NA	Solid	8015B NM	105195
LCS 880-105195/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105195
LCSD 880-105195/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105195
880-55403-1 MS	H-1-0-1'	Total/NA	Solid	8015B NM	105195
880-55403-1 MSD	H-1-0-1'	Total/NA	Solid	8015B NM	105195

Prep Batch: 105277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-3	H-3-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-5	H-5-0-1'	Total/NA	Solid	8015NM Prep	
880-55403-6	H-7-0-1'	Total/NA	Solid	8015NM Prep	
MB 880-105277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-3	H-3-0-1'	Total/NA	Solid	8015B NM	105277
880-55403-5	H-5-0-1'	Total/NA	Solid	8015B NM	105277
880-55403-6	H-7-0-1'	Total/NA	Solid	8015B NM	105277
MB 880-105277/1-A	Method Blank	Total/NA	Solid	8015B NM	105277
LCS 880-105277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105277
LCSD 880-105277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105277

Analysis Batch: 105318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Total/NA	Solid	8015 NM	
880-55403-2	H-2-0-1'	Total/NA	Solid	8015 NM	
880-55403-3	H-3-0-1'	Total/NA	Solid	8015 NM	
880-55403-4	H-4-0-1'	Total/NA	Solid	8015 NM	
880-55403-5	H-5-0-1'	Total/NA	Solid	8015 NM	
880-55403-6	H-7-0-1'	Total/NA	Solid	8015 NM	
880-55403-7	H-14-0-1'	Total/NA	Solid	8015 NM	
880-55403-8	H-21-0-1'	Total/NA	Solid	8015 NM	
880-55403-9	H-23-0-1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 105320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-18	S-39-1'-2'	Total/NA	Solid	8015 NM	
880-55599-21	S-40-1'-2'	Total/NA	Solid	8015 NM	

Prep Batch: 105580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-2	H-8-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-3	H-10-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-4	H-11-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-5	H-12-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-6	H-13-0-1'	Total/NA	Solid	8015NM Prep	
MB 880-105580/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105580/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105580/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 105588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-29	S-30-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-32	S-31-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-35	S-32-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-38	S-33-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-39	S-35-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-44	S-36-2'-3'	Total/NA	Solid	8015NM Prep	
880-55599-4	H-9-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-5	H-10-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-6	H-17-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-8	S-28-4'-5'	Total/NA	Solid	8015NM Prep	
880-55599-10	S-34-4'-5'	Total/NA	Solid	8015NM Prep	
880-55599-11	S-37-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-13	S-37-2'-3'	Total/NA	Solid	8015NM Prep	
880-55599-16	S-38-2'-3'	Total/NA	Solid	8015NM Prep	
880-55599-19	S-39-2'-3'	Total/NA	Solid	8015NM Prep	
880-55599-28	H-18-0-1'	Total/NA	Solid	8015NM Prep	
880-55599-36	S-40-4'-5'	Total/NA	Solid	8015NM Prep	
MB 880-105588/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105588/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105588/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55502-29 MS	S-30-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-29 MSD	S-30-2'-3'	Total/NA	Solid	8015NM Prep	

Prep Batch: 105620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	8015NM Prep	
MB 880-105620/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105620/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105620/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	8015B NM	105620
880-55502-1	H-6-0-1'	Total/NA	Solid	8015B NM	105580

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 105636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-2	H-8-0-1'	Total/NA	Solid	8015B NM	105580
880-55502-3	H-10-0-1'	Total/NA	Solid	8015B NM	105580
880-55502-4	H-11-0-1'	Total/NA	Solid	8015B NM	105580
880-55502-5	H-12-0-1'	Total/NA	Solid	8015B NM	105580
880-55502-6	H-13-0-1'	Total/NA	Solid	8015B NM	105580
MB 880-105580/1-A	Method Blank	Total/NA	Solid	8015B NM	105580
MB 880-105620/1-A	Method Blank	Total/NA	Solid	8015B NM	105620
LCS 880-105580/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105580
LCS 880-105620/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105620
LCSD 880-105580/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105580
LCSD 880-105620/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105620

Analysis Batch: 105638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-29	S-30-2'-3'	Total/NA	Solid	8015B NM	105588
880-55502-32	S-31-2'-3'	Total/NA	Solid	8015B NM	105588
880-55502-35	S-32-2'-3'	Total/NA	Solid	8015B NM	105588
880-55502-38	S-33-2'-3'	Total/NA	Solid	8015B NM	105588
880-55502-39	S-35-0-1'	Total/NA	Solid	8015B NM	105588
880-55502-44	S-36-2'-3'	Total/NA	Solid	8015B NM	105588
880-55599-4	H-9-0-1'	Total/NA	Solid	8015B NM	105588
880-55599-5	H-10-0-1'	Total/NA	Solid	8015B NM	105588
880-55599-6	H-17-0-1'	Total/NA	Solid	8015B NM	105588
880-55599-8	S-28-4'-5'	Total/NA	Solid	8015B NM	105588
880-55599-10	S-34-4'-5'	Total/NA	Solid	8015B NM	105588
880-55599-11	S-37-0-1'	Total/NA	Solid	8015B NM	105588
880-55599-13	S-37-2'-3'	Total/NA	Solid	8015B NM	105588
880-55599-16	S-38-2'-3'	Total/NA	Solid	8015B NM	105588
880-55599-19	S-39-2'-3'	Total/NA	Solid	8015B NM	105588
880-55599-28	H-18-0-1'	Total/NA	Solid	8015B NM	105588
880-55599-36	S-40-4'-5'	Total/NA	Solid	8015B NM	105588
MB 880-105588/1-A	Method Blank	Total/NA	Solid	8015B NM	105588
LCS 880-105588/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105588
LCSD 880-105588/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105588
880-55502-29 MS	S-30-2'-3'	Total/NA	Solid	8015B NM	105588
880-55502-29 MSD	S-30-2'-3'	Total/NA	Solid	8015B NM	105588

Analysis Batch: 105687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-10	H-18-0-1'	Total/NA	Solid	8015 NM	

Analysis Batch: 105771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Total/NA	Solid	8015 NM	
880-55502-2	H-8-0-1'	Total/NA	Solid	8015 NM	
880-55502-3	H-10-0-1'	Total/NA	Solid	8015 NM	
880-55502-4	H-11-0-1'	Total/NA	Solid	8015 NM	
880-55502-5	H-12-0-1'	Total/NA	Solid	8015 NM	
880-55502-6	H-13-0-1'	Total/NA	Solid	8015 NM	
880-55502-7	H-15-0-1'	Total/NA	Solid	8015 NM	
880-55502-8	H-16-0-1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 105771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-9	H-18-0-1'	Total/NA	Solid	8015 NM	
880-55502-10	H-19-0-1'	Total/NA	Solid	8015 NM	
880-55502-11	H-20-0-1'	Total/NA	Solid	8015 NM	
880-55502-12	H-22-0-1'	Total/NA	Solid	8015 NM	
880-55502-15	S-29-2'-3'	Total/NA	Solid	8015 NM	
880-55502-16	S-24-0-1'	Total/NA	Solid	8015 NM	
880-55502-19	S-26-0'-1'	Total/NA	Solid	8015 NM	
880-55502-22	S-27-0-1'	Total/NA	Solid	8015 NM	
880-55502-29	S-30-2'-3'	Total/NA	Solid	8015 NM	
880-55502-32	S-31-2'-3'	Total/NA	Solid	8015 NM	
880-55502-35	S-32-2'-3'	Total/NA	Solid	8015 NM	
880-55502-38	S-33-2'-3'	Total/NA	Solid	8015 NM	
880-55502-39	S-35-0-1'	Total/NA	Solid	8015 NM	
880-55502-44	S-36-2'-3'	Total/NA	Solid	8015 NM	

Analysis Batch: 105772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-4	H-9-0-1'	Total/NA	Solid	8015 NM	
880-55599-5	H-10-0-1'	Total/NA	Solid	8015 NM	
880-55599-6	H-17-0-1'	Total/NA	Solid	8015 NM	
880-55599-8	S-28-4'-5'	Total/NA	Solid	8015 NM	
880-55599-10	S-34-4'-5'	Total/NA	Solid	8015 NM	
880-55599-11	S-37-0-1'	Total/NA	Solid	8015 NM	
880-55599-13	S-37-2'-3'	Total/NA	Solid	8015 NM	
880-55599-16	S-38-2'-3'	Total/NA	Solid	8015 NM	
880-55599-19	S-39-2'-3'	Total/NA	Solid	8015 NM	
880-55599-28	H-18-0-1'	Total/NA	Solid	8015 NM	
880-55599-36	S-40-4'-5'	Total/NA	Solid	8015 NM	

Prep Batch: 105811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-7	H-15-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-8	H-16-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-9	H-18-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-11	H-20-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-12	H-22-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-15	S-29-2'-3'	Total/NA	Solid	8015NM Prep	
880-55502-16	S-24-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-19	S-26-0'-1'	Total/NA	Solid	8015NM Prep	
880-55502-22	S-27-0-1'	Total/NA	Solid	8015NM Prep	
MB 880-105811/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105811/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105811/3-B	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55502-7 MS	H-15-0-1'	Total/NA	Solid	8015NM Prep	
880-55502-7 MSD	H-15-0-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-7	H-15-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-8	H-16-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-9	H-18-0-1'	Total/NA	Solid	8015B NM	105811

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 105866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-11	H-20-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-12	H-22-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-15	S-29-2'-3'	Total/NA	Solid	8015B NM	105811
880-55502-16	S-24-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-19	S-26-0'-1'	Total/NA	Solid	8015B NM	105811
880-55502-22	S-27-0-1'	Total/NA	Solid	8015B NM	105811
MB 880-105811/1-A	Method Blank	Total/NA	Solid	8015B NM	105811
LCS 880-105811/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105811
LCSD 880-105811/3-B	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105811
880-55502-7 MS	H-15-0-1'	Total/NA	Solid	8015B NM	105811
880-55502-7 MSD	H-15-0-1'	Total/NA	Solid	8015B NM	105811

Prep Batch: 105952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-10	H-19-0-1'	Total/NA	Solid	8015NM Prep	
MB 880-105952/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105952/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-10	H-19-0-1'	Total/NA	Solid	8015B NM	105952
MB 880-105952/1-A	Method Blank	Total/NA	Solid	8015B NM	105952
LCS 880-105952/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105952
LCSD 880-105952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105952

HPLC/IC

Leach Batch: 104934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Soluble	Solid	DI Leach	
880-55403-2	H-2-0-1'	Soluble	Solid	DI Leach	
880-55403-3	H-3-0-1'	Soluble	Solid	DI Leach	
880-55403-4	H-4-0-1'	Soluble	Solid	DI Leach	
880-55403-5	H-5-0-1'	Soluble	Solid	DI Leach	
880-55403-6	H-7-0-1'	Soluble	Solid	DI Leach	
880-55403-7	H-14-0-1'	Soluble	Solid	DI Leach	
880-55403-8	H-21-0-1'	Soluble	Solid	DI Leach	
880-55403-9	H-23-0-1'	Soluble	Solid	DI Leach	
880-55403-10	H-18-0-1'	Soluble	Solid	DI Leach	
MB 880-104934/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104934/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104934/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 104988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-1	H-1-0-1'	Soluble	Solid	300.0	104934
880-55403-2	H-2-0-1'	Soluble	Solid	300.0	104934
880-55403-3	H-3-0-1'	Soluble	Solid	300.0	104934
880-55403-4	H-4-0-1'	Soluble	Solid	300.0	104934
880-55403-5	H-5-0-1'	Soluble	Solid	300.0	104934

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 104988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55403-6	H-7-0-1'	Soluble	Solid	300.0	104934
880-55403-7	H-14-0-1'	Soluble	Solid	300.0	104934
880-55403-8	H-21-0-1'	Soluble	Solid	300.0	104934
880-55403-9	H-23-0-1'	Soluble	Solid	300.0	104934
880-55403-10	H-18-0-1'	Soluble	Solid	300.0	104934
MB 880-104934/1-A	Method Blank	Soluble	Solid	300.0	104934
LCS 880-104934/2-A	Lab Control Sample	Soluble	Solid	300.0	104934
LCSD 880-104934/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104934

Leach Batch: 105057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Soluble	Solid	DI Leach	
880-55502-2	H-8-0-1'	Soluble	Solid	DI Leach	
880-55502-3	H-10-0-1'	Soluble	Solid	DI Leach	
880-55502-4	H-11-0-1'	Soluble	Solid	DI Leach	
880-55502-5	H-12-0-1'	Soluble	Solid	DI Leach	
880-55502-6	H-13-0-1'	Soluble	Solid	DI Leach	
880-55502-7	H-15-0-1'	Soluble	Solid	DI Leach	
880-55502-8	H-16-0-1'	Soluble	Solid	DI Leach	
880-55502-9	H-18-0-1'	Soluble	Solid	DI Leach	
880-55502-10	H-19-0-1'	Soluble	Solid	DI Leach	
880-55502-11	H-20-0-1'	Soluble	Solid	DI Leach	
880-55502-12	H-22-0-1'	Soluble	Solid	DI Leach	
880-55502-13	S-29-0-1'	Soluble	Solid	DI Leach	
880-55502-14	S-29-1'-2'	Soluble	Solid	DI Leach	
880-55502-15	S-29-2'-3'	Soluble	Solid	DI Leach	
880-55502-16	S-24-0-1'	Soluble	Solid	DI Leach	
880-55502-17	S-24-1'-2'	Soluble	Solid	DI Leach	
880-55502-19	S-26-0'-1'	Soluble	Solid	DI Leach	
880-55502-20	S-26-1'-2'	Soluble	Solid	DI Leach	
880-55502-41	S-35-2'-3'	Soluble	Solid	DI Leach	
MB 880-105057/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105057/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105057/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55502-1 MS	H-6-0-1'	Soluble	Solid	DI Leach	
880-55502-1 MSD	H-6-0-1'	Soluble	Solid	DI Leach	
880-55502-11 MS	H-20-0-1'	Soluble	Solid	DI Leach	
880-55502-11 MSD	H-20-0-1'	Soluble	Solid	DI Leach	

Leach Batch: 105058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-22	S-27-0-1'	Soluble	Solid	DI Leach	
880-55502-23	S-27-1'-2'	Soluble	Solid	DI Leach	
880-55502-24	S-34-0-1'	Soluble	Solid	DI Leach	
880-55502-25	S-34-1'-2'	Soluble	Solid	DI Leach	
880-55502-26	S-34-2'-3'	Soluble	Solid	DI Leach	
880-55502-27	S-30-0-1'	Soluble	Solid	DI Leach	
880-55502-28	S-30-1'-2'	Soluble	Solid	DI Leach	
880-55502-29	S-30-2'-3'	Soluble	Solid	DI Leach	
880-55502-30	S-31-0-1'	Soluble	Solid	DI Leach	
880-55502-31	S-31-1'-2'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 105058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-32	S-31-2'-3'	Soluble	Solid	DI Leach	
880-55502-33	S-32-0-1'	Soluble	Solid	DI Leach	
880-55502-34	S-32-1'-2'	Soluble	Solid	DI Leach	
880-55502-35	S-32-2'-3'	Soluble	Solid	DI Leach	
880-55502-36	S-33-0-1'	Soluble	Solid	DI Leach	
880-55502-37	S-33-1'-2'	Soluble	Solid	DI Leach	
880-55502-38	S-33-2'-3'	Soluble	Solid	DI Leach	
880-55502-39	S-35-0-1'	Soluble	Solid	DI Leach	
880-55502-40	S-35-1'-2'	Soluble	Solid	DI Leach	
880-55502-42	S-36-0-1'	Soluble	Solid	DI Leach	
MB 880-105058/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105058/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105058/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55502-31 MS	S-31-1'-2'	Soluble	Solid	DI Leach	
880-55502-31 MSD	S-31-1'-2'	Soluble	Solid	DI Leach	
880-55502-42 MS	S-36-0-1'	Soluble	Solid	DI Leach	
880-55502-42 MSD	S-36-0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 105061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-1	H-6-0-1'	Soluble	Solid	300.0	105057
880-55502-2	H-8-0-1'	Soluble	Solid	300.0	105057
880-55502-3	H-10-0-1'	Soluble	Solid	300.0	105057
880-55502-4	H-11-0-1'	Soluble	Solid	300.0	105057
880-55502-5	H-12-0-1'	Soluble	Solid	300.0	105057
880-55502-6	H-13-0-1'	Soluble	Solid	300.0	105057
880-55502-7	H-15-0-1'	Soluble	Solid	300.0	105057
880-55502-8	H-16-0-1'	Soluble	Solid	300.0	105057
880-55502-9	H-18-0-1'	Soluble	Solid	300.0	105057
880-55502-10	H-19-0-1'	Soluble	Solid	300.0	105057
880-55502-11	H-20-0-1'	Soluble	Solid	300.0	105057
880-55502-12	H-22-0-1'	Soluble	Solid	300.0	105057
880-55502-13	S-29-0-1'	Soluble	Solid	300.0	105057
880-55502-14	S-29-1'-2'	Soluble	Solid	300.0	105057
880-55502-15	S-29-2'-3'	Soluble	Solid	300.0	105057
880-55502-16	S-24-0-1'	Soluble	Solid	300.0	105057
880-55502-17	S-24-1'-2'	Soluble	Solid	300.0	105057
880-55502-19	S-26-0-1'	Soluble	Solid	300.0	105057
880-55502-20	S-26-1'-2'	Soluble	Solid	300.0	105057
880-55502-41	S-35-2'-3'	Soluble	Solid	300.0	105057
MB 880-105057/1-A	Method Blank	Soluble	Solid	300.0	105057
LCS 880-105057/2-A	Lab Control Sample	Soluble	Solid	300.0	105057
LCSD 880-105057/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105057
880-55502-1 MS	H-6-0-1'	Soluble	Solid	300.0	105057
880-55502-1 MSD	H-6-0-1'	Soluble	Solid	300.0	105057
880-55502-11 MS	H-20-0-1'	Soluble	Solid	300.0	105057
880-55502-11 MSD	H-20-0-1'	Soluble	Solid	300.0	105057

Analysis Batch: 105064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-22	S-27-0-1'	Soluble	Solid	300.0	105058

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 105064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-23	S-27-1'-2'	Soluble	Solid	300.0	105058
880-55502-24	S-34-0-1'	Soluble	Solid	300.0	105058
880-55502-25	S-34-1'-2'	Soluble	Solid	300.0	105058
880-55502-26	S-34-2'-3'	Soluble	Solid	300.0	105058
880-55502-27	S-30-0-1'	Soluble	Solid	300.0	105058
880-55502-28	S-30-1'-2'	Soluble	Solid	300.0	105058
880-55502-29	S-30-2'-3'	Soluble	Solid	300.0	105058
880-55502-30	S-31-0-1'	Soluble	Solid	300.0	105058
880-55502-31	S-31-1'-2'	Soluble	Solid	300.0	105058
880-55502-32	S-31-2'-3'	Soluble	Solid	300.0	105058
880-55502-33	S-32-0-1'	Soluble	Solid	300.0	105058
880-55502-34	S-32-1'-2'	Soluble	Solid	300.0	105058
880-55502-35	S-32-2'-3'	Soluble	Solid	300.0	105058
880-55502-36	S-33-0-1'	Soluble	Solid	300.0	105058
880-55502-37	S-33-1'-2'	Soluble	Solid	300.0	105058
880-55502-38	S-33-2'-3'	Soluble	Solid	300.0	105058
880-55502-39	S-35-0-1'	Soluble	Solid	300.0	105058
880-55502-40	S-35-1'-2'	Soluble	Solid	300.0	105058
880-55502-42	S-36-0-1'	Soluble	Solid	300.0	105058
MB 880-105058/1-A	Method Blank	Soluble	Solid	300.0	105058
LCS 880-105058/2-A	Lab Control Sample	Soluble	Solid	300.0	105058
LCSD 880-105058/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105058
880-55502-31 MS	S-31-1'-2'	Soluble	Solid	300.0	105058
880-55502-31 MSD	S-31-1'-2'	Soluble	Solid	300.0	105058
880-55502-42 MS	S-36-0-1'	Soluble	Solid	300.0	105058
880-55502-42 MSD	S-36-0-1'	Soluble	Solid	300.0	105058

Leach Batch: 105090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-43	S-36-1'-2'	Soluble	Solid	DI Leach	
880-55502-44	S-36-2'-3'	Soluble	Solid	DI Leach	
MB 880-105090/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105090/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105090/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55502-43 MS	S-36-1'-2'	Soluble	Solid	DI Leach	
880-55502-43 MSD	S-36-1'-2'	Soluble	Solid	DI Leach	

Analysis Batch: 105103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55502-43	S-36-1'-2'	Soluble	Solid	300.0	105090
880-55502-44	S-36-2'-3'	Soluble	Solid	300.0	105090
MB 880-105090/1-A	Method Blank	Soluble	Solid	300.0	105090
LCS 880-105090/2-A	Lab Control Sample	Soluble	Solid	300.0	105090
LCSD 880-105090/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105090
880-55502-43 MS	S-36-1'-2'	Soluble	Solid	300.0	105090
880-55502-43 MSD	S-36-1'-2'	Soluble	Solid	300.0	105090

Leach Batch: 105221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-1	S-28-0-1'	Soluble	Solid	DI Leach	
880-55599-2	S-28-1'-2'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 105221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-3	S-28-2'-3'	Soluble	Solid	DI Leach	
880-55599-4	H-9-0-1'	Soluble	Solid	DI Leach	
880-55599-5	H-10-0-1'	Soluble	Solid	DI Leach	
880-55599-6	H-17-0-1'	Soluble	Solid	DI Leach	
880-55599-7	S-28-3'-4'	Soluble	Solid	DI Leach	
880-55599-8	S-28-4'-5'	Soluble	Solid	DI Leach	
880-55599-9	S-34-3'-4'	Soluble	Solid	DI Leach	
880-55599-10	S-34-4'-5'	Soluble	Solid	DI Leach	
880-55599-11	S-37-0-1'	Soluble	Solid	DI Leach	
880-55599-12	S-37-1'-2'	Soluble	Solid	DI Leach	
880-55599-13	S-37-2'-3'	Soluble	Solid	DI Leach	
880-55599-14	S-38-0-1'	Soluble	Solid	DI Leach	
880-55599-15	S-38-1'-2'	Soluble	Solid	DI Leach	
880-55599-16	S-38-2'-3'	Soluble	Solid	DI Leach	
880-55599-17	S-39-0-1'	Soluble	Solid	DI Leach	
880-55599-18	S-39-1'-2'	Soluble	Solid	DI Leach	
880-55599-19	S-39-2'-3'	Soluble	Solid	DI Leach	
880-55599-20	S-40-0-1'	Soluble	Solid	DI Leach	
MB 880-105221/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105221/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105221/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55599-1 MS	S-28-0-1'	Soluble	Solid	DI Leach	
880-55599-1 MSD	S-28-0-1'	Soluble	Solid	DI Leach	
880-55599-11 MS	S-37-0-1'	Soluble	Solid	DI Leach	
880-55599-11 MSD	S-37-0-1'	Soluble	Solid	DI Leach	

Leach Batch: 105222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-21	S-40-1'-2'	Soluble	Solid	DI Leach	
880-55599-22	S-40-2'-3'	Soluble	Solid	DI Leach	
880-55599-23	S-25-0-1'	Soluble	Solid	DI Leach	
880-55599-24	S-25-1'-2'	Soluble	Solid	DI Leach	
880-55599-25	S-25-2'-3'	Soluble	Solid	DI Leach	
880-55599-26	S-25-3'-4'	Soluble	Solid	DI Leach	
880-55599-27	S-25-4'-5'	Soluble	Solid	DI Leach	
880-55599-28	H-18-0-1'	Soluble	Solid	DI Leach	
880-55599-29	S-38-3'-4'	Soluble	Solid	DI Leach	
880-55599-30	S-38-4'-5'	Soluble	Solid	DI Leach	
880-55599-31	S-28-5'-6'	Soluble	Solid	DI Leach	
880-55599-32	S-34-5'-6'	Soluble	Solid	DI Leach	
880-55599-33	S-39-3'-4'	Soluble	Solid	DI Leach	
880-55599-34	S-39-4'-5'	Soluble	Solid	DI Leach	
880-55599-35	S-40-3'-4'	Soluble	Solid	DI Leach	
880-55599-36	S-40-4'-5'	Soluble	Solid	DI Leach	
MB 880-105222/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105222/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105222/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55599-29 MS	S-38-3'-4'	Soluble	Solid	DI Leach	
880-55599-29 MSD	S-38-3'-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 105223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-1	S-28-0-1'	Soluble	Solid	300.0	105221
880-55599-2	S-28-1'-2'	Soluble	Solid	300.0	105221
880-55599-3	S-28-2'-3'	Soluble	Solid	300.0	105221
880-55599-4	H-9-0-1'	Soluble	Solid	300.0	105221
880-55599-5	H-10-0-1'	Soluble	Solid	300.0	105221
880-55599-6	H-17-0-1'	Soluble	Solid	300.0	105221
880-55599-7	S-28-3'-4'	Soluble	Solid	300.0	105221
880-55599-8	S-28-4'-5'	Soluble	Solid	300.0	105221
880-55599-9	S-34-3'-4'	Soluble	Solid	300.0	105221
880-55599-10	S-34-4'-5'	Soluble	Solid	300.0	105221
880-55599-11	S-37-0-1'	Soluble	Solid	300.0	105221
880-55599-12	S-37-1'-2'	Soluble	Solid	300.0	105221
880-55599-13	S-37-2'-3'	Soluble	Solid	300.0	105221
880-55599-14	S-38-0-1'	Soluble	Solid	300.0	105221
880-55599-15	S-38-1'-2'	Soluble	Solid	300.0	105221
880-55599-16	S-38-2'-3'	Soluble	Solid	300.0	105221
880-55599-17	S-39-0-1'	Soluble	Solid	300.0	105221
880-55599-18	S-39-1'-2'	Soluble	Solid	300.0	105221
880-55599-19	S-39-2'-3'	Soluble	Solid	300.0	105221
880-55599-20	S-40-0-1'	Soluble	Solid	300.0	105221
MB 880-105221/1-A	Method Blank	Soluble	Solid	300.0	105221
LCS 880-105221/2-A	Lab Control Sample	Soluble	Solid	300.0	105221
LCSD 880-105221/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105221
880-55599-1 MS	S-28-0-1'	Soluble	Solid	300.0	105221
880-55599-1 MSD	S-28-0-1'	Soluble	Solid	300.0	105221
880-55599-11 MS	S-37-0-1'	Soluble	Solid	300.0	105221
880-55599-11 MSD	S-37-0-1'	Soluble	Solid	300.0	105221

Analysis Batch: 105241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55599-21	S-40-1'-2'	Soluble	Solid	300.0	105222
880-55599-22	S-40-2'-3'	Soluble	Solid	300.0	105222
880-55599-23	S-25-0-1'	Soluble	Solid	300.0	105222
880-55599-24	S-25-1'-2'	Soluble	Solid	300.0	105222
880-55599-25	S-25-2'-3'	Soluble	Solid	300.0	105222
880-55599-26	S-25-3'-4'	Soluble	Solid	300.0	105222
880-55599-27	S-25-4'-5'	Soluble	Solid	300.0	105222
880-55599-28	H-18-0-1'	Soluble	Solid	300.0	105222
880-55599-29	S-38-3'-4'	Soluble	Solid	300.0	105222
880-55599-30	S-38-4'-5'	Soluble	Solid	300.0	105222
880-55599-31	S-28-5'-6'	Soluble	Solid	300.0	105222
880-55599-32	S-34-5'-6'	Soluble	Solid	300.0	105222
880-55599-33	S-39-3'-4'	Soluble	Solid	300.0	105222
880-55599-34	S-39-4'-5'	Soluble	Solid	300.0	105222
880-55599-35	S-40-3'-4'	Soluble	Solid	300.0	105222
880-55599-36	S-40-4'-5'	Soluble	Solid	300.0	105222
MB 880-105222/1-A	Method Blank	Soluble	Solid	300.0	105222
LCS 880-105222/2-A	Lab Control Sample	Soluble	Solid	300.0	105222
LCSD 880-105222/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105222
880-55599-29 MS	S-38-3'-4'	Soluble	Solid	300.0	105222
880-55599-29 MSD	S-38-3'-4'	Soluble	Solid	300.0	105222

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-1-0-1'
Date Collected: 03/07/25 09:30
Date Received: 03/07/25 17:07

Lab Sample ID: 880-55403-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/13/25 11:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 11:40	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 09:18	CH	EET MID

Client Sample ID: H-2-0-1'
Date Collected: 03/07/25 09:40
Date Received: 03/07/25 17:07

Lab Sample ID: 880-55403-2
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	5030B			5.05 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 16:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 16:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/13/25 12:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 12:24	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 14:20	CH	EET MID

Client Sample ID: H-3-0-1'
Date Collected: 03/07/25 09:50
Date Received: 03/07/25 17:07

Lab Sample ID: 880-55403-3
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	5030B			5.00 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 16:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 16:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/14/25 13:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105277	03/14/25 08:16	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 13:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 14:26	CH	EET MID

Client Sample ID: H-4-0-1'
Date Collected: 03/07/25 10:00
Date Received: 03/07/25 17:07

Lab Sample ID: 880-55403-4
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	5030B			5.02 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 17:17	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-4-0-1'**Lab Sample ID: 880-55403-4****Date Collected: 03/07/25 10:00****Matrix: Solid****Date Received: 03/07/25 17:07**

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			105318	03/13/25 12:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 12:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 14:32	CH	EET MID

Client Sample ID: H-5-0-1'**Lab Sample ID: 880-55403-5****Date Collected: 03/07/25 10:10****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/14/25 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105277	03/14/25 08:16	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 13:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 14:38	CH	EET MID

Client Sample ID: H-7-0-1'**Lab Sample ID: 880-55403-6****Date Collected: 03/07/25 10:20****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 17:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/14/25 17:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105277	03/14/25 08:16	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 17:25	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 15:04	CH	EET MID

Client Sample ID: H-14-0-1'**Lab Sample ID: 880-55403-7****Date Collected: 03/07/25 10:30****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 18:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/13/25 13:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 13:39	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-14-0-1'**Lab Sample ID: 880-55403-7****Date Collected: 03/07/25 10:30****Matrix: Solid****Date Received: 03/07/25 17:07**

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	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 15:10	CH	EET MID

Client Sample ID: H-21-0-1'**Lab Sample ID: 880-55403-8****Date Collected: 03/07/25 10:40****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 18:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/13/25 13:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 13:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 15:16	CH	EET MID

Client Sample ID: H-23-0-1'**Lab Sample ID: 880-55403-9****Date Collected: 03/07/25 10:50****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	105096	03/12/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105095	03/12/25 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105208	03/12/25 19:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105318	03/13/25 14:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 14:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 15:22	CH	EET MID

Client Sample ID: H-18-0-1'**Lab Sample ID: 880-55403-10****Date Collected: 03/07/25 11:00****Matrix: Solid****Date Received: 03/07/25 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	105643	03/20/25 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105632	03/20/25 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105692	03/20/25 13:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105687	03/20/25 13:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 13:00	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104934	03/10/25 13:49	SA	EET MID
Soluble	Analysis	300.0		1			104988	03/11/25 15:27	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-6-0-1'**Lab Sample ID: 880-55502-1****Date Collected: 03/10/25 09:30****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/19/25 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/19/25 23:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 19:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 19:49	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 06:16	SMC	EET MID

Client Sample ID: H-8-0-1'**Lab Sample ID: 880-55502-2****Date Collected: 03/10/25 09:35****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 01:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 20:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 20:04	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 06:34	SMC	EET MID

Client Sample ID: H-10-0-1'**Lab Sample ID: 880-55502-3****Date Collected: 03/10/25 09:40****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 01:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 20:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 20:20	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 14:59	SMC	EET MID

Client Sample ID: H-11-0-1'**Lab Sample ID: 880-55502-4****Date Collected: 03/10/25 09:45****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 02:07	AJ	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-11-0-1'**Lab Sample ID: 880-55502-4****Date Collected: 03/10/25 09:45****Matrix: Solid****Date Received: 03/11/25 14:35**

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			105771	03/20/25 20:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 20:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 15:05	SMC	EET MID

Client Sample ID: H-12-0-1'**Lab Sample ID: 880-55502-5****Date Collected: 03/10/25 09:50****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 03:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 20:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 20:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 06:51	SMC	EET MID

Client Sample ID: H-13-0-1'**Lab Sample ID: 880-55502-6****Date Collected: 03/10/25 09:55****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 03:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 21:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105580	03/19/25 13:39	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 21:06	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 13:17	SMC	EET MID

Client Sample ID: H-15-0-1'**Lab Sample ID: 880-55502-7****Date Collected: 03/10/25 10:00****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 04:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 12:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 12:59	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-15-0-1'**Lab Sample ID: 880-55502-7****Date Collected: 03/10/25 10:00****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 13:23	SMC	EET MID

Client Sample ID: H-16-0-1'**Lab Sample ID: 880-55502-8****Date Collected: 03/10/25 10:05****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 04:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 13:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 13:48	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 13:28	SMC	EET MID

Client Sample ID: H-18-0-1'**Lab Sample ID: 880-55502-9****Date Collected: 03/10/25 10:10****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 04:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 14:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 14:04	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 13:34	SMC	EET MID

Client Sample ID: H-19-0-1'**Lab Sample ID: 880-55502-10****Date Collected: 03/10/25 10:15****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 05:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/25/25 12:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105952	03/19/25 07:32	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105970	03/25/25 12:48	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 13:40	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-20-0-1'**Lab Sample ID: 880-55502-11****Date Collected: 03/10/25 10:20****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 05:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 05:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 15:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 15:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 07:37	SMC	EET MID

Client Sample ID: H-22-0-1'**Lab Sample ID: 880-55502-12****Date Collected: 03/10/25 10:25****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105578	03/19/25 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105552	03/20/25 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 05:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 15:43	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 07:54	SMC	EET MID

Client Sample ID: S-29-0-1'**Lab Sample ID: 880-55502-13****Date Collected: 03/10/25 10:30****Matrix: Solid****Date Received: 03/11/25 14:35**

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	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105061	03/12/25 08:00	SMC	EET MID

Client Sample ID: S-29-1'-2'**Lab Sample ID: 880-55502-14****Date Collected: 03/10/25 10:35****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:18	SMC	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-29-2'-3'**Lab Sample ID: 880-55502-15****Date Collected: 03/10/25 10:40****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 14:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 15:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 15:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:23	SMC	EET MID

Client Sample ID: S-24-0-1'**Lab Sample ID: 880-55502-16****Date Collected: 03/10/25 10:45****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 14:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 16:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 16:15	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:29	SMC	EET MID

Client Sample ID: S-24-1'-2'**Lab Sample ID: 880-55502-17****Date Collected: 03/10/25 10:50****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:35	SMC	EET MID

Client Sample ID: S-26-0'-1'**Lab Sample ID: 880-55502-19****Date Collected: 03/10/25 11:00****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 15:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 16:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 16:31	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:46	SMC	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-26-1'-2'**Lab Sample ID: 880-55502-20****Date Collected: 03/10/25 11:05****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:52	SMC	EET MID

Client Sample ID: S-27-0-1'**Lab Sample ID: 880-55502-22****Date Collected: 03/10/25 11:15****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 15:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/24/25 16:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105811	03/21/25 16:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105866	03/24/25 16:47	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 08:07	SMC	EET MID

Client Sample ID: S-27-1'-2'**Lab Sample ID: 880-55502-23****Date Collected: 03/10/25 11:20****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 08:13	SMC	EET MID

Client Sample ID: S-34-0-1'**Lab Sample ID: 880-55502-24****Date Collected: 03/10/25 11:25****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105064	03/12/25 08:19	SMC	EET MID

Client Sample ID: S-34-1'-2'**Lab Sample ID: 880-55502-25****Date Collected: 03/10/25 11:30****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 08:25	SMC	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-34-2'-3'**Lab Sample ID: 880-55502-26****Date Collected: 03/10/25 11:35****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 08:43	SMC	EET MID

Client Sample ID: S-30-0-1'**Lab Sample ID: 880-55502-27****Date Collected: 03/10/25 11:40****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105064	03/12/25 08:49	SMC	EET MID

Client Sample ID: S-30-1'-2'**Lab Sample ID: 880-55502-28****Date Collected: 03/10/25 11:45****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 08:55	SMC	EET MID

Client Sample ID: S-30-2'-3'**Lab Sample ID: 880-55502-29****Date Collected: 03/10/25 11:50****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 15:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 10:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 09:00	SMC	EET MID

Client Sample ID: S-31-0-1'**Lab Sample ID: 880-55502-30****Date Collected: 03/10/25 11:55****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105064	03/12/25 09:06	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-31-1'-2'**Lab Sample ID: 880-55502-31****Date Collected: 03/10/25 12:00****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 09:12	SMC	EET MID

Client Sample ID: S-31-2'-3'**Lab Sample ID: 880-55502-32****Date Collected: 03/10/25 12:05****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 16:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 10:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 10:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 09:30	SMC	EET MID

Client Sample ID: S-32-0-1'**Lab Sample ID: 880-55502-33****Date Collected: 03/10/25 12:10****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105064	03/12/25 09:36	SMC	EET MID

Client Sample ID: S-32-1'-2'**Lab Sample ID: 880-55502-34****Date Collected: 03/10/25 12:15****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 09:53	SMC	EET MID

Client Sample ID: S-32-2'-3'**Lab Sample ID: 880-55502-35****Date Collected: 03/10/25 12:20****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 16:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 11:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 11:14	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-32-2'-3'**Lab Sample ID: 880-55502-35****Date Collected: 03/10/25 12:20****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 09:59	SMC	EET MID

Client Sample ID: S-33-0-1'**Lab Sample ID: 880-55502-36****Date Collected: 03/10/25 12:25****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105064	03/12/25 10:05	SMC	EET MID

Client Sample ID: S-33-1'-2'**Lab Sample ID: 880-55502-37****Date Collected: 03/10/25 12:30****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 10:11	SMC	EET MID

Client Sample ID: S-33-2'-3'**Lab Sample ID: 880-55502-38****Date Collected: 03/10/25 12:35****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 16:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 11:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 11:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 10:17	SMC	EET MID

Client Sample ID: S-35-0-1'**Lab Sample ID: 880-55502-39****Date Collected: 03/10/25 12:40****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 11:44	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-35-0-1'**Lab Sample ID: 880-55502-39****Date Collected: 03/10/25 12:40****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 10:23	SMC	EET MID

Client Sample ID: S-35-1'-2'**Lab Sample ID: 880-55502-40****Date Collected: 03/10/25 12:45****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 10:29	SMC	EET MID

Client Sample ID: S-35-2'-3'**Lab Sample ID: 880-55502-41****Date Collected: 03/10/25 12:50****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105057	03/11/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105061	03/12/25 08:40	SMC	EET MID

Client Sample ID: S-36-0-1'**Lab Sample ID: 880-55502-42****Date Collected: 03/10/25 12:55****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105058	03/11/25 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105064	03/12/25 04:13	SMC	EET MID

Client Sample ID: S-36-1'-2'**Lab Sample ID: 880-55502-43****Date Collected: 03/10/25 13:00****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105090	03/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105103	03/12/25 09:44	SMC	EET MID

Client Sample ID: S-36-2'-3'**Lab Sample ID: 880-55502-44****Date Collected: 03/10/25 13:05****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105579	03/19/25 13:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105631	03/20/25 17:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105688	03/20/25 17:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105771	03/20/25 11:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 11:58	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-36-2'-3'**Lab Sample ID: 880-55502-44****Date Collected: 03/10/25 13:05****Matrix: Solid****Date Received: 03/11/25 14:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105090	03/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105103	03/12/25 10:01	SMC	EET MID

Client Sample ID: S-28-0-1'**Lab Sample ID: 880-55599-1****Date Collected: 03/11/25 09:00****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105223	03/13/25 16:57	SMC	EET MID

Client Sample ID: S-28-1'-2'**Lab Sample ID: 880-55599-2****Date Collected: 03/11/25 09:10****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 17:15	SMC	EET MID

Client Sample ID: S-28-2'-3'**Lab Sample ID: 880-55599-3****Date Collected: 03/11/25 09:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 17:21	SMC	EET MID

Client Sample ID: H-9-0-1'**Lab Sample ID: 880-55599-4****Date Collected: 03/11/25 10:00****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 11:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 11:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 12:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 17:27	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: H-10-0-1'**Lab Sample ID: 880-55599-5****Date Collected: 03/11/25 10:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 11:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 12:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 12:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 17:32	SMC	EET MID

Client Sample ID: H-17-0-1'**Lab Sample ID: 880-55599-6****Date Collected: 03/11/25 10:40****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 12:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 12:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 12:43	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 17:58	SMC	EET MID

Client Sample ID: S-28-3'-4'**Lab Sample ID: 880-55599-7****Date Collected: 03/11/25 11:15****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:04	SMC	EET MID

Client Sample ID: S-28-4'-5'**Lab Sample ID: 880-55599-8****Date Collected: 03/11/25 11:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 12:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 13:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 13:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:10	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-34-3'-4'**Lab Sample ID: 880-55599-9****Date Collected: 03/11/25 11:40****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:15	SMC	EET MID

Client Sample ID: S-34-4'-5'**Lab Sample ID: 880-55599-10****Date Collected: 03/11/25 11:05****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 12:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 13:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 13:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:21	SMC	EET MID

Client Sample ID: S-37-0-1'**Lab Sample ID: 880-55599-11****Date Collected: 03/11/25 11:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 13:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 13:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:27	SMC	EET MID

Client Sample ID: S-37-1'-2'**Lab Sample ID: 880-55599-12****Date Collected: 03/11/25 11:40****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:45	SMC	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-37-2'-3'

Lab Sample ID: 880-55599-13

Date Collected: 03/11/25 11:50

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 13:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 13:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 13:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 18:51	SMC	EET MID

Client Sample ID: S-38-0-1'

Lab Sample ID: 880-55599-14

Date Collected: 03/11/25 12:20

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105223	03/13/25 19:08	SMC	EET MID

Client Sample ID: S-38-1'-2'

Lab Sample ID: 880-55599-15

Date Collected: 03/11/25 12:30

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 19:14	SMC	EET MID

Client Sample ID: S-38-2'-3'

Lab Sample ID: 880-55599-16

Date Collected: 03/11/25 12:40

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 13:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 14:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 19:20	SMC	EET MID

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-39-0-1'**Lab Sample ID: 880-55599-17****Date Collected: 03/11/25 13:00****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105221	03/13/25 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 19:26	SMC	EET MID

Client Sample ID: S-39-1'-2'**Lab Sample ID: 880-55599-18****Date Collected: 03/11/25 13:10****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	105201	03/13/25 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105190	03/13/25 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105294	03/13/25 14:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105320	03/13/25 16:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 16:50	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105221	03/13/25 11:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 19:32	SMC	EET MID

Client Sample ID: S-39-2'-3'**Lab Sample ID: 880-55599-19****Date Collected: 03/11/25 13:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 14:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 14:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 14:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105221	03/13/25 11:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105223	03/13/25 19:38	SMC	EET MID

Client Sample ID: S-40-0-1'**Lab Sample ID: 880-55599-20****Date Collected: 03/11/25 13:40****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	105221	03/13/25 11:09	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	105223	03/13/25 19:43	SMC	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-40-1'-2'

Lab Sample ID: 880-55599-21

Date Collected: 03/11/25 13:50

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105201	03/13/25 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105190	03/13/25 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105294	03/13/25 16:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105320	03/13/25 17:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105195	03/13/25 08:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105218	03/13/25 17:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105241	03/13/25 19:49	SMC	EET MID

Client Sample ID: S-40-2'-3'

Lab Sample ID: 880-55599-22

Date Collected: 03/11/25 14:00

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105241	03/14/25 11:18	SMC	EET MID

Client Sample ID: S-25-0-1'

Lab Sample ID: 880-55599-23

Date Collected: 03/12/25 14:10

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:00	SMC	EET MID

Client Sample ID: S-25-1'-2'

Lab Sample ID: 880-55599-24

Date Collected: 03/12/25 14:20

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:18	SMC	EET MID

Client Sample ID: S-25-2'-3'

Lab Sample ID: 880-55599-25

Date Collected: 03/12/25 14:30

Matrix: Solid

Date Received: 03/13/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:23	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-25-3'-4'**Lab Sample ID: 880-55599-26****Date Collected: 03/12/25 09:50****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:29	SMC	EET MID

Client Sample ID: S-25-4'-5'**Lab Sample ID: 880-55599-27****Date Collected: 03/12/25 10:00****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:35	SMC	EET MID

Client Sample ID: H-18-0-1'**Lab Sample ID: 880-55599-28****Date Collected: 03/12/25 10:10****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105729	03/21/25 08:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 14:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 14:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 14:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:41	SMC	EET MID

Client Sample ID: S-38-3'-4'**Lab Sample ID: 880-55599-29****Date Collected: 03/12/25 10:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 20:46	SMC	EET MID

Client Sample ID: S-38-4'-5'**Lab Sample ID: 880-55599-30****Date Collected: 03/12/25 10:30****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 21:04	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-28-5'-6'**Lab Sample ID: 880-55599-31****Date Collected: 03/12/25 11:40****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/13/25 21:09	SMC	EET MID

Client Sample ID: S-34-5'-6'**Lab Sample ID: 880-55599-32****Date Collected: 03/12/25 12:00****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/14/25 03:25	SMC	EET MID

Client Sample ID: S-39-3'-4'**Lab Sample ID: 880-55599-33****Date Collected: 03/12/25 12:05****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/14/25 03:31	SMC	EET MID

Client Sample ID: S-39-4'-5'**Lab Sample ID: 880-55599-34****Date Collected: 03/12/25 12:10****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/14/25 03:37	SMC	EET MID

Client Sample ID: S-40-3'-4'**Lab Sample ID: 880-55599-35****Date Collected: 03/12/25 12:15****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/14/25 03:43	SMC	EET MID

Client Sample ID: S-40-4'-5'**Lab Sample ID: 880-55599-36****Date Collected: 03/12/25 12:20****Matrix: Solid****Date Received: 03/13/25 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105749	03/21/25 15:54	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105721	03/21/25 17:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105805	03/21/25 17:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105772	03/20/25 15:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105588	03/19/25 14:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105638	03/20/25 15:05	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Client Sample ID: S-40-4'-5'

Date Collected: 03/12/25 12:20

Date Received: 03/13/25 09:50

Lab Sample ID: 880-55599-36

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	105222	03/13/25 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105241	03/14/25 03:49	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET 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:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55403-1	H-1-0-1'	Solid	03/07/25 09:30	03/07/25 17:07	0 - 1
880-55403-2	H-2-0-1'	Solid	03/07/25 09:40	03/07/25 17:07	0 - 1
880-55403-3	H-3-0-1'	Solid	03/07/25 09:50	03/07/25 17:07	0 - 1
880-55403-4	H-4-0-1'	Solid	03/07/25 10:00	03/07/25 17:07	0 - 1
880-55403-5	H-5-0-1'	Solid	03/07/25 10:10	03/07/25 17:07	0 - 1
880-55403-6	H-7-0-1'	Solid	03/07/25 10:20	03/07/25 17:07	0 - 1
880-55403-7	H-14-0-1'	Solid	03/07/25 10:30	03/07/25 17:07	0 - 1
880-55403-8	H-21-0-1'	Solid	03/07/25 10:40	03/07/25 17:07	0 - 1
880-55403-9	H-23-0-1'	Solid	03/07/25 10:50	03/07/25 17:07	0 - 1
880-55403-10	H-18-0-1'	Solid	03/07/25 11:00	03/07/25 17:07	0 - 1
880-55502-1	H-6-0-1'	Solid	03/10/25 09:30	03/11/25 14:35	
880-55502-2	H-8-0-1'	Solid	03/10/25 09:35	03/11/25 14:35	
880-55502-3	H-10-0-1'	Solid	03/10/25 09:40	03/11/25 14:35	
880-55502-4	H-11-0-1'	Solid	03/10/25 09:45	03/11/25 14:35	
880-55502-5	H-12-0-1'	Solid	03/10/25 09:50	03/11/25 14:35	
880-55502-6	H-13-0-1'	Solid	03/10/25 09:55	03/11/25 14:35	
880-55502-7	H-15-0-1'	Solid	03/10/25 10:00	03/11/25 14:35	
880-55502-8	H-16-0-1'	Solid	03/10/25 10:05	03/11/25 14:35	
880-55502-9	H-18-0-1'	Solid	03/10/25 10:10	03/11/25 14:35	
880-55502-10	H-19-0-1'	Solid	03/10/25 10:15	03/11/25 14:35	
880-55502-11	H-20-0-1'	Solid	03/10/25 10:20	03/11/25 14:35	
880-55502-12	H-22-0-1'	Solid	03/10/25 10:25	03/11/25 14:35	
880-55502-13	S-29-0-1'	Solid	03/10/25 10:30	03/11/25 14:35	
880-55502-14	S-29-1'-2'	Solid	03/10/25 10:35	03/11/25 14:35	
880-55502-15	S-29-2'-3'	Solid	03/10/25 10:40	03/11/25 14:35	
880-55502-16	S-24-0-1'	Solid	03/10/25 10:45	03/11/25 14:35	
880-55502-17	S-24-1'-2'	Solid	03/10/25 10:50	03/11/25 14:35	
880-55502-19	S-26-0-1'	Solid	03/10/25 11:00	03/11/25 14:35	
880-55502-20	S-26-1'-2'	Solid	03/10/25 11:05	03/11/25 14:35	
880-55502-22	S-27-0-1'	Solid	03/10/25 11:15	03/11/25 14:35	
880-55502-23	S-27-1'-2'	Solid	03/10/25 11:20	03/11/25 14:35	
880-55502-24	S-34-0-1'	Solid	03/10/25 11:25	03/11/25 14:35	
880-55502-25	S-34-1'-2'	Solid	03/10/25 11:30	03/11/25 14:35	
880-55502-26	S-34-2'-3'	Solid	03/10/25 11:35	03/11/25 14:35	
880-55502-27	S-30-0-1'	Solid	03/10/25 11:40	03/11/25 14:35	
880-55502-28	S-30-1'-2'	Solid	03/10/25 11:45	03/11/25 14:35	
880-55502-29	S-30-2'-3'	Solid	03/10/25 11:50	03/11/25 14:35	
880-55502-30	S-31-0-1'	Solid	03/10/25 11:55	03/11/25 14:35	
880-55502-31	S-31-1'-2'	Solid	03/10/25 12:00	03/11/25 14:35	
880-55502-32	S-31-2'-3'	Solid	03/10/25 12:05	03/11/25 14:35	
880-55502-33	S-32-0-1'	Solid	03/10/25 12:10	03/11/25 14:35	
880-55502-34	S-32-1'-2'	Solid	03/10/25 12:15	03/11/25 14:35	
880-55502-35	S-32-2'-3'	Solid	03/10/25 12:20	03/11/25 14:35	
880-55502-36	S-33-0-1'	Solid	03/10/25 12:25	03/11/25 14:35	
880-55502-37	S-33-1'-2'	Solid	03/10/25 12:30	03/11/25 14:35	
880-55502-38	S-33-2'-3'	Solid	03/10/25 12:35	03/11/25 14:35	
880-55502-39	S-35-0-1'	Solid	03/10/25 12:40	03/11/25 14:35	
880-55502-40	S-35-1'-2'	Solid	03/10/25 12:45	03/11/25 14:35	
880-55502-41	S-35-2'-3'	Solid	03/10/25 12:50	03/11/25 14:35	
880-55502-42	S-36-0-1'	Solid	03/10/25 12:55	03/11/25 14:35	
880-55502-43	S-36-1'-2'	Solid	03/10/25 13:00	03/11/25 14:35	
880-55502-44	S-36-2'-3'	Solid	03/10/25 13:05	03/11/25 14:35	
880-55599-1	S-28-0-1'	Solid	03/11/25 09:00	03/13/25 09:50	
880-55599-2	S-28-1'-2'	Solid	03/11/25 09:10	03/13/25 09:50	

Sample Summary

Client: Arcadis US Inc.
Project/Site: Tomahawk WC Unit 714

Job ID: 880-55599-2
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55599-3	S-28-2'-3'	Solid	03/11/25 09:20	03/13/25 09:50	
880-55599-4	H-9-0-1'	Solid	03/11/25 10:00	03/13/25 09:50	
880-55599-5	H-10-0-1'	Solid	03/11/25 10:20	03/13/25 09:50	
880-55599-6	H-17-0-1'	Solid	03/11/25 10:40	03/13/25 09:50	
880-55599-7	S-28-3'-4'	Solid	03/11/25 11:15	03/13/25 09:50	
880-55599-8	S-28-4'-5'	Solid	03/11/25 11:20	03/13/25 09:50	
880-55599-9	S-34-3'-4'	Solid	03/11/25 11:40	03/13/25 09:50	
880-55599-10	S-34-4'-5'	Solid	03/11/25 11:05	03/13/25 09:50	
880-55599-11	S-37-0-1'	Solid	03/11/25 11:20	03/13/25 09:50	
880-55599-12	S-37-1'-2'	Solid	03/11/25 11:40	03/13/25 09:50	
880-55599-13	S-37-2'-3'	Solid	03/11/25 11:50	03/13/25 09:50	
880-55599-14	S-38-0-1'	Solid	03/11/25 12:20	03/13/25 09:50	
880-55599-15	S-38-1'-2'	Solid	03/11/25 12:30	03/13/25 09:50	
880-55599-16	S-38-2'-3'	Solid	03/11/25 12:40	03/13/25 09:50	
880-55599-17	S-39-0-1'	Solid	03/11/25 13:00	03/13/25 09:50	
880-55599-18	S-39-1'-2'	Solid	03/11/25 13:10	03/13/25 09:50	
880-55599-19	S-39-2'-3'	Solid	03/11/25 13:20	03/13/25 09:50	
880-55599-20	S-40-0-1'	Solid	03/11/25 13:40	03/13/25 09:50	
880-55599-21	S-40-1'-2'	Solid	03/11/25 13:50	03/13/25 09:50	
880-55599-22	S-40-2'-3'	Solid	03/11/25 14:00	03/13/25 09:50	
880-55599-23	S-25-0-1'	Solid	03/12/25 14:10	03/13/25 09:50	
880-55599-24	S-25-1'-2'	Solid	03/12/25 14:20	03/13/25 09:50	
880-55599-25	S-25-2'-3'	Solid	03/12/25 14:30	03/13/25 09:50	
880-55599-26	S-25-3'-4'	Solid	03/12/25 09:50	03/13/25 09:50	
880-55599-27	S-25-4'-5'	Solid	03/12/25 10:00	03/13/25 09:50	
880-55599-28	H-18-0-1'	Solid	03/12/25 10:10	03/13/25 09:50	
880-55599-29	S-38-3'-4'	Solid	03/12/25 10:20	03/13/25 09:50	
880-55599-30	S-38-4'-5'	Solid	03/12/25 10:30	03/13/25 09:50	
880-55599-31	S-28-5'-6'	Solid	03/12/25 11:40	03/13/25 09:50	
880-55599-32	S-34-5'-6'	Solid	03/12/25 12:00	03/13/25 09:50	
880-55599-33	S-39-3'-4'	Solid	03/12/25 12:05	03/13/25 09:50	
880-55599-34	S-39-4'-5'	Solid	03/12/25 12:10	03/13/25 09:50	
880-55599-35	S-40-3'-4'	Solid	03/12/25 12:15	03/13/25 09:50	
880-55599-36	S-40-4'-5'	Solid	03/12/25 12:20	03/13/25 09:50	

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody



880-55403 Chain of Custody

www.xenco.com Page of

Project Manager:	Justin Nixon	Bill to: (if different)	
Company Name:	At & A: S	Company Name:	
Address:	1004 W. Big Spring Ave	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:		Email:	

Project Name:	Tovarhale	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:		TAI starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Chris Puyke				
P.O. #:					
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	(Yes) No	Thermometer ID:			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:			
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
HA-1-0-1'	Soil	3-7-25	0930	0-1'	6	1	CL 300		None: NO DI Water: H ₂ O	Held on BTEX & TPH
HA-2-0-1'			0940						Cool: Cool MeOH: Me	
HA-3-0-1'			0950						HCL: HC HNO ₃ : HN	
HA-4-0-1'			1000						H ₂ SO ₄ : H ₂ NaOH: Na	
HA-5-0-1'			1010						H ₃ PO ₄ : HP	
HA-7-0-1'			1020						NaHSO ₄ : NABIS	
HA-14-0-1'			1030						Na ₂ S ₂ O ₅ : NaSO ₃	
HA-21-0-1'			1040						Zn Acetate+NaOH: Zn	
HA-23-0-1'			1050						NaOH+Ascorbic Acid: SAPC	
HA-18-0-1'			1100							

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notices: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Chris Puyke	Justin Nixon	3-7-25			
		1707			

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- 12
- 13
- 14



Chain of Custody
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



880-55403 Chain of Custody

www.xenco.com Page of

Project Manager:	Justin Nixon	Bill to: (if different)	
Company Name:	At & A: S	Company Name:	
Address:	1004 W. Big Spring Ave	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:		Email:	

Project Name:	Terra Verde	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:		TAI starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Chris Puyke				
P.O. #:					
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	(Yes) No	Thermometer ID:			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:			
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
HA-1-0-1'	Soil	3-7-25	0930	0-1'	6	1	CL 300		None: NO DI Water: H ₂ O	Held on BTEX & TPH
HA-2-0-1'			0940						Cool: Cool MeOH: Me	
HA-3-0-1'			0950						HCL: HC HNO ₃ : HN	
HA-4-0-1'			1000						H ₂ SO ₄ : H ₂ NaOH: Na	
HA-5-0-1'			1010						H ₃ PO ₄ : HP	
HA-7-0-1'			1020						NaHSO ₄ : NABIS	
HA-14-0-1'			1030						Na ₂ S ₂ O ₅ : NaSO ₃	
HA-21-0-1'			1040						Zn Acetate+NaOH: Zn	
HA-23-0-1'			1050						NaOH+Ascorbic Acid: SAPC	
HA-18-0-1'			1100							

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notices: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Chris Puyke	[Signature]	3-7-25			
		1707			

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-55403-1

Login Number: 55403

List Number: 1

Creator: Lee, Randell

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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Midland

Appendix D

CRI Cover Sheet

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157953

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: ARCADIS

Activity ID:

Performing Agency Report No: 30272835

Other Agencies:

Report Recipient (Your Client): Conoco Phillips

- Activity Types:
- ☐ Research Design
 - ☒ Archaeological Survey/Inventory
 - ☐ Architectural Survey/Inventory
 - ☐ Test Excavation
 - ☐ Monitoring
 - ☐ Collections/Non-Field Study
 - ☐ Compliance Decision
 - ☐ Literature Review Overview
 - ☐ Excavation
 - ☐ Ethnographic Study
 - ☐ Resource/Property Visit
 - ☐ Historic Structures Report
 - ☐ Other:

Total Survey Acreage: 13.80

Total Tribal Acreage: 0.00

Total Resources Visited: 0

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	-------------------------	--------	---------------	-------------------	---------

Report Details

Type of Report Negative

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number:

Title of Report

Title of Report: Class III Cultural Resources Investigation of 13.8 Acres at Tomahawk WC Unit 714, Eddy County, New Mexico

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

Arcadis. Improving quality of life.

From: [Nixon, Justin](#)
To: [Wells, Shelly, EMNRD](#)
Cc: [Foord, Scott](#)
Subject: Re: [EXTERNAL] nAPP2430659655 Tomahawk WC Unit 714 Work Plan
Date: Monday, May 5, 2025 5:00:50 PM

Good afternoon Shelly,

Yes ma'am, that's correct. The 3/7/25 H-18 location was 10' south within the excavated area so we stepped out to the north.

Please let me know if you have any other questions or would like to discuss further. I should be in the office all week.

Thanks,
Justin

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, May 5, 2025 5:43:43 PM
To: Nixon, Justin <Justin.Nixon@arcadis.com>
Cc: Foord, Scott <William.Foord@arcadis.com>
Subject: RE: [EXTERNAL] nAPP2430659655 Tomahawk WC Unit 714 Work Plan

Arcadis Warning: Exercise caution with email messages from external sources such as this message. Always verify the sender and avoid clicking on links or scanning QR codes unless certain of their authenticity.

Hi Justin,

I am beginning to review the remediation plan submitted for **NAPP2430659655 TOMAHAWK WC UNIT 714** and have a question for you. H-18 has two different samples collected on two different dates. Is the sample that was collected on 3/7/25 included within the excavation extent? It is unclear as there is only one location for H-18 on Figure 3. Can you please explain?

I look forward to hearing what you have to say,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Nixon, Justin <Justin.Nixon@arcadis.com>
Sent: Monday, May 5, 2025 3:16 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Foord, Scott <William.Foord@arcadis.com>
Subject: RE: [EXTERNAL] nAPP2430659655 Tomahawk WC Unit 714 Work Plan

Thank you Shelly, I appreciate the assistance.

Have a great week,

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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, May 5, 2025 4:14 PM
To: Nixon, Justin <Justin.Nixon@arcadis.com>
Cc: Foord, Scott <William.Foord@arcadis.com>
Subject: RE: [EXTERNAL] nAPP2430659655 Tomahawk WC Unit 714 Work Plan

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Hi Justin,

Thank you for providing the update. I will reach out should I have any questions when I am reviewing the submitted remediation plan.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced

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EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Nixon, Justin <Justin.Nixon@arcadis.com>
Sent: Monday, May 5, 2025 3:03 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Foord, Scott <William.Foord@arcadis.com>
Subject: [EXTERNAL] nAPP2430659655 Tomahawk WC Unit 714 Work Plan

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

Good afternoon Shelly,

I just wanted to notify you that we have completed the BLM requirements, then assessed the location and submitted the work plan for your review. We are prepared to get this moving as soon as it has been reviewed

If you have any questions, please let me know. I hope you have a great week.

Thank you,

Justin Nixon | Certified Project Manager 1 | justin.nixon@arcadis.com
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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 453055

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2430659655
Incident Name	NAPP2430659655 TOMAHAWK WC UNIT 714 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TOMAHAWK WC UNIT 714
Date Release Discovered	10/30/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 291 BBL Recovered: 20 BBL Lost: 271 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Material spilled was Recycled Produced Water.

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QUESTIONS, Page 2

Action 453055

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 02/03/2025
--	---

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QUESTIONS, Page 3

Action 453055

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	62.9
GRO+DRO (EPA SW-846 Method 8015M)	68.8
BTEX (EPA SW-846 Method 8021B or 8260B)	0.4
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/05/2025
On what date will (or did) the final sampling or liner inspection occur	05/05/2025
On what date will (or was) the remediation complete(d)	06/26/2025
What is the estimated surface area (in square feet) that will be reclaimed	135256
What is the estimated volume (in cubic yards) that will be reclaimed	12673
What is the estimated surface area (in square feet) that will be remediated	135256
What is the estimated volume (in cubic yards) that will be remediated	12673
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 453055

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	TOMAHAWK FED 20-O CTB SAT [fAPP2203451054]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/17/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 453055

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 453055

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 453055

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 453055
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	5/6/2025
scwells	1) Variance to collect samples every 500 ft2 is denied. Five-point composite confirmation samples may be collected from the floor of the excavations representing no more than 400 ft2 and from the sidewalls every 200 ft2. Samples must be tested for all Table I constituents.	5/6/2025
scwells	2) Under the Site Characterization portion of the C-141 application, update the minimum distances to the following during resubmittal: any other significant watercourse (1/2-1 mile W), any playa lake (1/2-1 mile) and a 100-year floodplain (1/2-1 mile S).	5/6/2025
scwells	Submit remediation closure report to the OCD by 8/4/25.	5/6/2025