



July 3, 2024

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report - Cheddar North HGB Water Leg Release (Cheddar RP)
Incident #: nAPP2404035912
Goodnight Midstream Permian, LLC
Site Location: Unit L, S28, T21S, R32E
(Lat 32.446816°, Long -103.687171°)
Lea County, New Mexico
ESRR Project No. 2023

To whom it may concern:

On behalf of Goodnight Midstream Permian, LLC (Goodnight), Earth Systems Response & Restoration (ESRR) has prepared this letter to document the Cheddar RP (site) release assessment and remediation activities. The site is located at GPS coordinates 32.446816°, -103.687171° within Unit L, S28, T21S, R32E in Lea County, New Mexico.

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on February 09, 2024, due to a water leg release. It resulted in approximately ten (10) barrels of produced water spraying on to the caliche pad with light overspray extending onto adjacent native soils to the north with six (6) barrels of produced water recovered. The release area on the caliche pad measured approximately 195 feet (ft) long by 27 to 200 ft wide with a total square footage of approximately 27,400 square (sq.) ft.

Site Characterization

Based on a review of the New Mexico Office of State Engineers (NMOSE) and United States Geological Survey (USGS) databases, the site is located in a low karst potential area and there are no known surface water features within a 0.50-mile radius of the location. The nearest identified water well (C-04839-POD1) is located on the same location 375 feet to the southwest at GPS coordinates 32.445802°, -103.687718° and was drilled on June 14, 2024 with no indication of groundwater encountered within 55 ft. of the surface. The next nearest identified water well (C-01701-POD1) is located approximately 2.22 miles southeast of the site in Unit L, S35, T21S, R32E. The well has a reported depth to groundwater of 560 ft. below ground surface (bgs) in December 2018.

Cheddar RP
Goodnight Midstream, LLC
Incident #: nAPP2404035912



Regulatory Criteria

The following criteria were utilized in assessing and remediating the site per client request and in accordance with the NMOCD Regulatory Standards established in 19.15.29.12 NMAC.

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 2,500 mg/kg (GRO + DRO + ORO)
- TPH: 1,000 mg/kg (GRO + DRO)
- Chloride: 10,000 mg/kg

Release Response and Site Assessment

On February 9, 2024, ESRR conducted an initial release response to evaluate active onsite conditions including creating a GPS perimeter and collecting photos. Additionally, Goodnight Midstream (Goodnight) contractors were onsite conducting recovery activities of free fluids.

On February 12, 2024, subsequent to recovery activities, ESRR advanced twenty (20) delineation soil borings to collect thirty (30) soil samples from depths ranging from surface to 2 feet (ft.) below grade surface (bgs) within and surrounding the release area to assess potential impacts vertically and horizontally. The collected soil samples were placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories (Eurofins) in Midland, Texas. The soil samples were analyzed for TPH by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0.

Laboratory analytical data suggest surface soils associated with delineation soil borings HA-1 and HA-7 exceed NMOCD regulatory criteria to a depth of 0.5 feet (ft.) below grade surface (bgs). The impacted area requiring remediation activities is located on the caliche pad measured approximately 95 feet (ft) long by 35 to 70 ft wide with a total square footage of approximately 4,850 sq. ft.

The delineation soil sample laboratory analytical results from the site assessment are provided in Table 1. Additionally, copies of laboratory analysis and chain-of-custody documentation are attached. See Figure 2 for delineation soil sample locations.

Remediation and Confirmation Soil Sampling Activities

On February 28, 2024, Goodnight contractors excavated the impacted soils associated with delineation soil borings HA-1 and HA-7 to depth of 0.5 ft. bgs. as directed by delineation laboratory analytical data. Upon excavation, the excavated soils were transported to the Parabo Disposal Facility, a state regulated disposal facility, for final disposal.

On February 29, 2024, subsequent to excavation activities, ESRR collected confirmation samples from within the excavation area. A total of twenty-five (25) confirmation samples were collected (CS-1 through CS-25) to ensure removal of the impacted soils. All collected samples were submitted to Eurofins for TPH analysis by EPA method 8015 Modified, BTEX analysis by EPA Method 8021B, and chloride analysis by EPA method 300.0.

Cheddar RP
Goodnight Midstream, LLC
Incident #: nAPP2404035912



Laboratory analytical data suggests soils exceeding NMOCD regulatory criteria are not present and no additional excavation is required. Subsequent to laboratory analytical data review, the excavated area was backfilled with clean landowner approved caliche material and leveled to the surrounding grade surface.

On June 14, 2024, per NMOCD request, ESRR supervised the drilling of a 6-inch borehole to a depth of 55 ft. bgs and the completion of a temporary monitoring well to determine if groundwater was present. Subsequent to completion of the temporary monitoring well, ESRR gauged the onsite well utilizing an industry standard water level meter and determined no groundwater was present.

On June 17, 2024, ESRR returned to the site after 72 hours to gauge the monitoring well utilizing an industry standard groundwater level meter and determined no groundwater was present. Subsequent to water well gauging, the dry water well was plugged per state regulations.

On June 27, 2024, ESRR collected sidewalls from the former excavation area. A total of four (4) confirmation samples were collected (NSW-1, SSW-1, ESW-1, and WSW-1) to ensure removal of the impacted soils. All collected samples were submitted to Eurofins for TPH analysis by EPA method 8015 Modified, BTEX analysis by EPA Method 8021B, and chloride analysis by EPA method 300.0.

Laboratory analytical data suggests soils exceeding NMOCD regulatory criteria are not present and no additional excavation or remediation is required.

The confirmation soil sample analytical results are provided in Table 2. Additionally, copies of laboratory analysis and chain-of-custody documentation are attached. See Figure 4 for confirmation soil sample locations.

Conclusions

Based on the assessment findings, depth to groundwater, onsite remediation activities, and laboratory analytical results, no further remediation activities are required at the site. Goodnight formally requests closure of the release. If you have any questions regarding this report or need additional information, please contact us at 432-813-1605.

Sincerely,

Mason Jones
Mason Jones
Operations Manager – Midland

K. Williams
Kris Williams, CHMM, REM
Operations Manager - Texas

Cheddar RP
Goodnight Midstream, LLC
Incident #: nAPP2404035912



Attached:

- Figure 1 – Site Location Map
- Figure 2 – Delineation Soil Sample Locations and Site Map – 02/12/2024
- Figure 3 – Perimeter Soil Sample Locations and Site Map – 02/12/2024
- Figure 4 – Confirmation Soil Sample Locations and Site Map – 02/29/2024 & 06/27/2024
- Figure 5 – Water Well/Soil Boring Location and Site Map
- Figure 6 – Soil Boring Log
- Table 1 – Summary of Delineation Soil Analytical Data
- Table 2 – Summary of Confirmation Soil Analytical Data
- Photographic Log
- Groundwater Research
- Laboratory Analytical Reports
- Regulatory Agency Notification and Communication



Figure 1 – Site Location Map

Cheddar RP – Goodnight Midstream, LLC
GPS: 32.446816°, -103.687171
Lea County, New Mexico

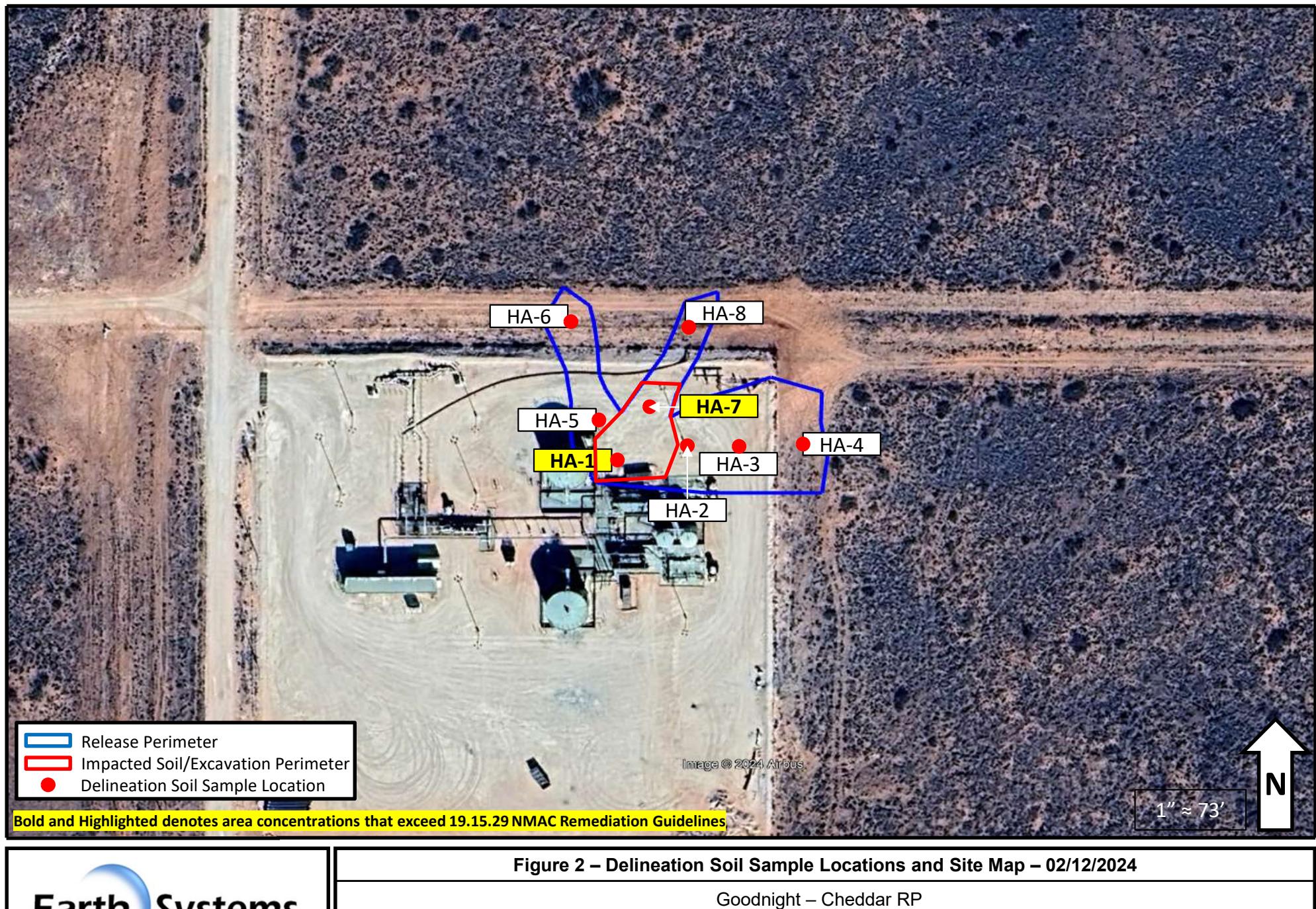


Figure 2 – Delineation Soil Sample Locations and Site Map – 02/12/2024

Goodnight – Cheddar RP
GPS: 32.447083°, -103.688556°
Lea County, New Mexico

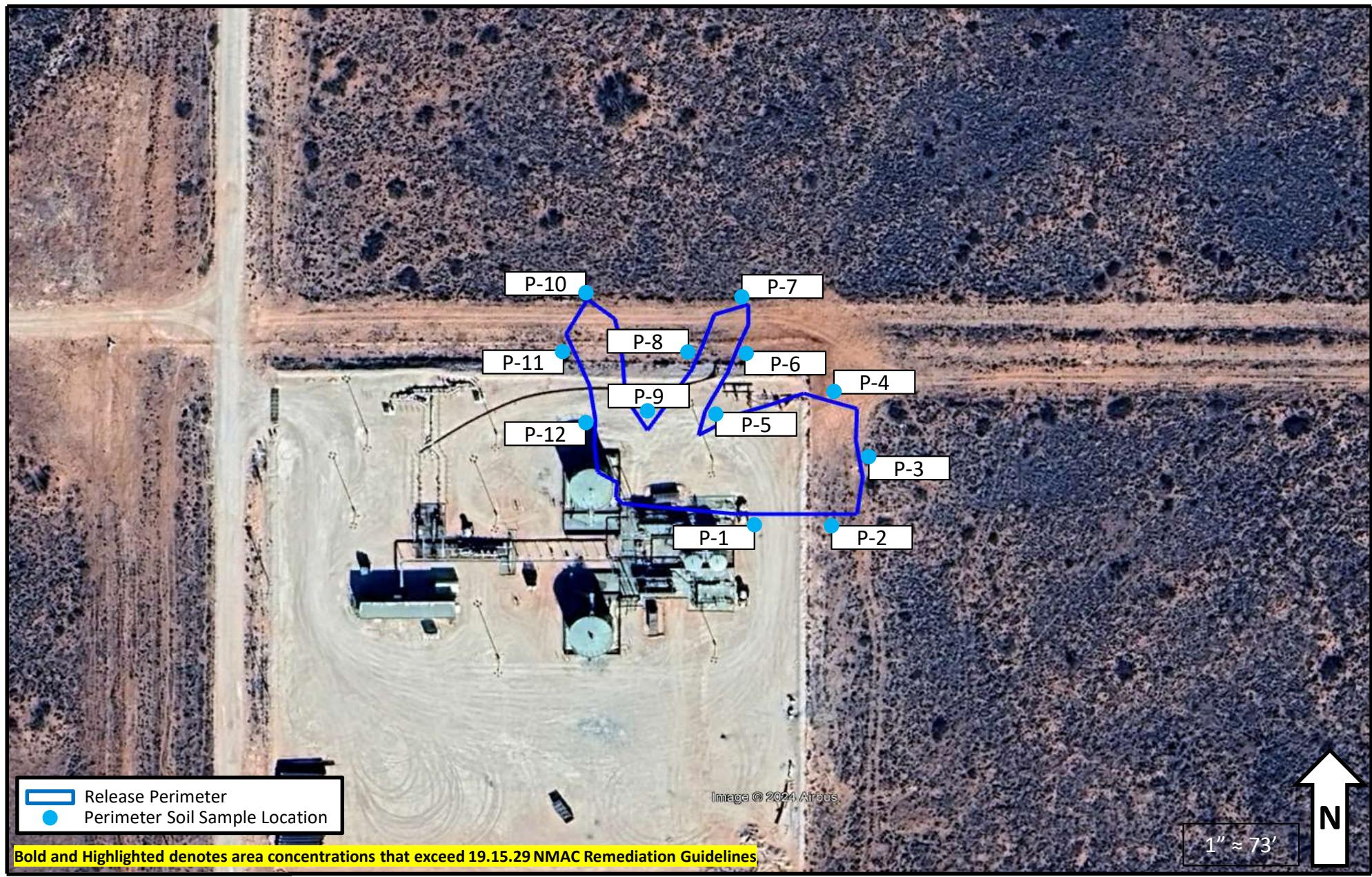


Figure 3 – Perimeter Soil Sample Locations and Site Map – 02/12/2024

Goodnight – Cheddar RP
GPS: 32.447083°, -103.688556°
Lea County, New Mexico

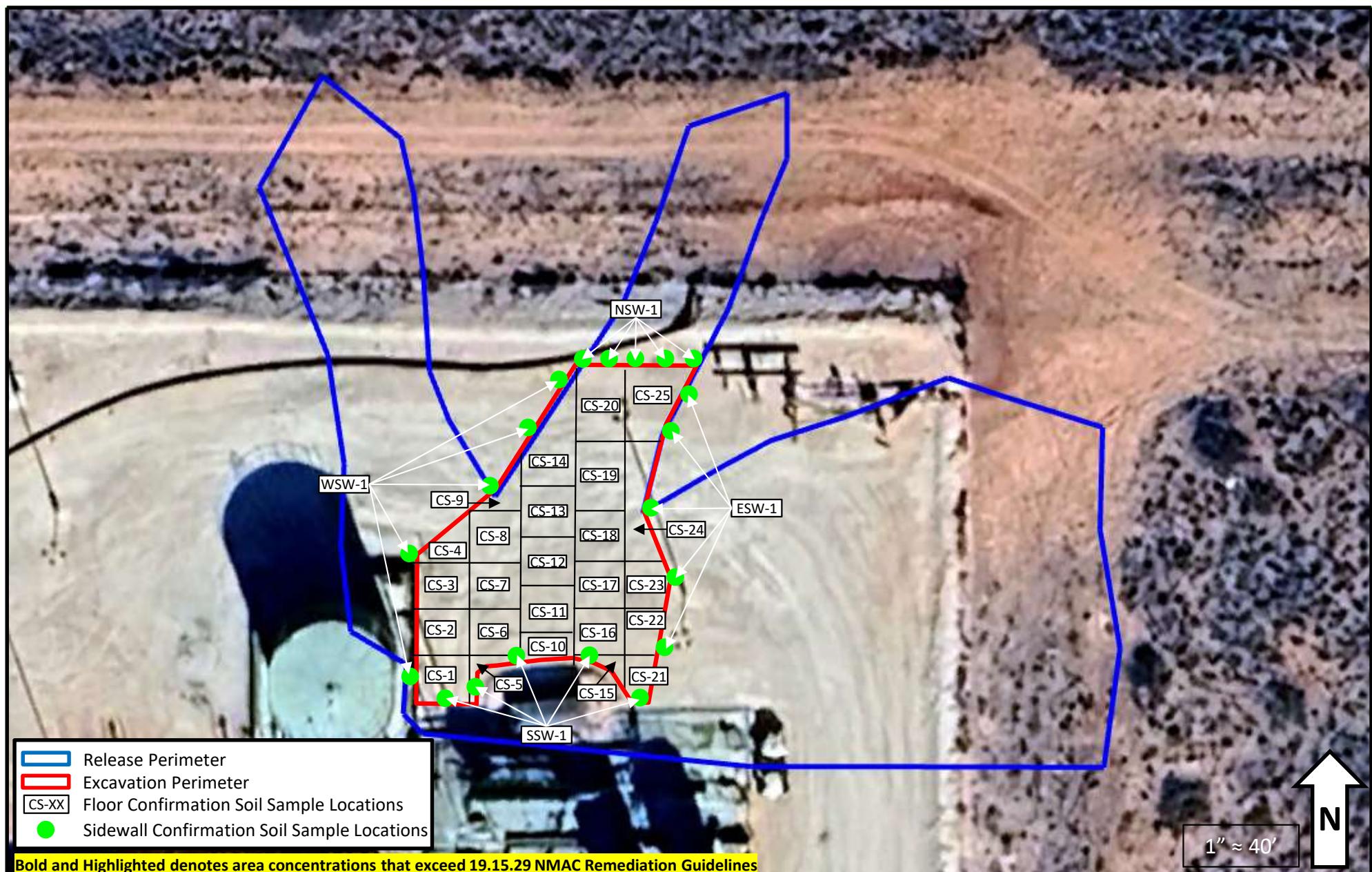


Figure 4 – Confirmation Soil Sample Locations and Site Map – 02/29/2024 & 6/27/2024

Goodnight – Cheddar RP
 GPS: 32.447083°, -103.688556°
 Lea County, New Mexico



Figure 5 – Water Well/Soil Boring Location and Site Map

Goodnight – Cheddar RP
GPS: 32.447083°, -103.688556°
Lea County, New Mexico

Figure 6 - SOIL BORING LOG**Page 1 of 1**

PROJECT: Cheddar RP
 PROJECT NUMBER: 2023
 CLIENT: Goodnight Midstream
 SOIL BORING 1
 TOTAL DEPTH: 55 feet
 FIELD PERSONNEL: Marvin Davis

DRILLING COMPANY: Hungry Horse LLC
 DRILLER: Dean Darent
 DRILLING METHOD: Air Rotary
 BORE HOLE DIAMETER: 6 inch
 DATE DRILLED: 6/14/2024

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	Material Description	DEPTH (FT)
0					1		Dark Brown, Sandstone w/ Gypsum Fragments, Silty	0
5					2		Dark Brown, Sandstone, Silty	5
10					3		Brown, Sandstone w/ Gypsum Fragments, Silty	10
15					4		Tan, Very Fine Sandstone, Silty	15
20					5		Brown, Very Fine Sandstone, Silty	20
25					6		Tan, Very Fine Sandstone, Silty	25
30					7		Tan, Very Fine Sandstone w/ Gypsum Fragments, Silty	30
35					8		Tan, Very Fine Sandstone w/ Gypsum Fragments, Silty	35
40					9		Tan, Very Fine Sandstone w/ Gypsum Fragments, Silty	40
45					10		Brown, Very Fine Sandstone w/ Gypsum Fragments, Silty	45
50					11		Brown, Very Fine Sandstone w/ Gypsum Fragments, Silty Terminus of Boring - No Groundwater Present	50
55								55

Table 1 - Summary of Delineation Soil Analytical Results
Goodnight Cheddar RP
32.447083°, -103.688556°
Lea County, New Mexico

		Gasoline Range		Diesel Range		Motor Oil Range		Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
		Chlorides (mg/kg)	Organics (GRO)-C6-C10 (mg/Kg)	Organics (Over C10-C28) (mg/Kg)	Organics (Over C28-C36) (mg/Kg)								
		10,000		1,000				2,500	50				50
		600						100	10				50
Sample ID	Sample Date	Sample Depth (ft.)											
HA - 1	2/12/2024	0 - 0.5	10,600	3,930	17,600	<251	21,500	5.72	120	68.1	161	409	
		0.5 - 1	2,350	161	1,190	<50.5	1,350	<0.0399	0.933	1.26	11.3	13.4	
		1.5 - 2R	75.3	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
HA - 2	2/12/2024	0 - 0.5	193	<50	152	<50	152	<0.0494	<0.0199	<0.0199	<0.0398	0.0494	
		0.5 - 1	160	<50.2	117	<50.2	117	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	
		1.5 - 2	62.8	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
HA - 3	2/12/2024	0 - 0.5	523	<50.4	489	<50.4	489	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	
		0.5 - 1	65.2	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
HA - 4 ¹	2/12/2024	0 - 0.5	59.8	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
		1.5 - 2	29.4	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
HA - 5	2/12/2024	0 - 0.5	70.9	<50	<50	<50	<50	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	
		0.5 - 1	57	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
HA - 6 ¹	2/12/2024	0 - 0.5	62.6	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00396	<0.00398	
		0.5 - 1	69.5	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
HA - 7	2/12/2024	0 - 0.5	7,410	868	12,100	<249	13,000	<0.0994	4.03	5.08	26.6	35.7	
		0.5 - 1	85.4	Pending	Pending	Pending	Pending	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
HA - 8 ¹	2/12/2024	0 - 0.5	106	<50	97	<50	97	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	
		0.5 - 1	68.4	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	
P - 1	2/12/2024	0 - 0.5	48.4	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
P - 2	2/12/2024	0 - 0.5	43.8	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
P - 3	2/12/2024	0 - 0.5	63.3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
P - 4	2/12/2024	0 - 0.5	80.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
P - 5	2/12/2024	0 - 0.5	63.1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
P - 6	2/12/2024	0 - 0.5	83.3	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	
P - 7	2/12/2024	0 - 0.5	53.8	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
P - 8	2/12/2024	0 - 0.5	78.7	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	
P - 9	2/12/2024	0 - 0.5	55.4	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
P - 10	2/12/2024	0 - 0.5	77.7	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	
P - 11	2/12/2024	0 - 0.5	45.9	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
P - 12	2/12/2024	0 - 0.5	95.6	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC Remediation Guidelines

1 = Soil boring present in native soils are subject to 19.15.29(D) NMAC Reclamation Guidelines.

TPH = Total Petroleum Hydrocarbons

Ft. = Feet

mg/kg = milligrams per kilogram

R = Refusal of soil boring advancement due to onsite soil lithology

Table 2 - Summary of Confirmation Soil Analytical Results

Goodnight Cheddar RP

32.447083°, -103.688556°

Lea County, New Mexico

			Gasoline Range		Diesel Range		Motor Oil Range		Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	
			Chlorides (mg/kg)	Organics (GRO)-C6-C10 (mg/Kg)	Organics (Over C10-C28) (mg/Kg)	Organics (Over C28-C36) (mg/Kg)									
19.15.29 NMAC Remediation Guidelines:			10,000	1,000			2,500	50						50	
Sample ID	Sample Date	Sample Depth (ft.)													
CS - 1	2/29/2024	0.5 - 1	227	<49.6	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
CS - 2	2/29/2024	0.5 - 1	195	<49.7	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
CS - 3	2/29/2024	0.5 - 1	155	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	
CS - 4	2/29/2024	0.5 - 1	181	<49.8	790	49.8	840	<0.00200	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401		
CS - 5	2/29/2024	0.5 - 1	616	<49.6	62.8	<49.6	62.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 6	2/29/2024	0.5 - 1	433	<50.4	80.4	<50.4	80.4	<0.00198	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397		
CS - 7	2/29/2024	0.5 - 1	1,780	<50.5	809	<50.5	809	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402		
CS - 8	2/29/2024	0.5 - 1	480	<50.3	200	<50.3	200	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 9	2/29/2024	0.5 - 1	643	<50.3	181	<50.3	181	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399		
CS - 10	2/29/2024	0.5 - 1	374	<50.1	64.1	<50.1	64.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396		
CS - 11	2/29/2024	0.5 - 1	3,460	<50.4	729	<50.4	729	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 12	2/29/2024	0.5 - 1	510	<50.5	93.2	<50.5	93.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402		
CS - 13	2/29/2024	0.5 - 1	1,160	<50.0	56.5	<50.0	56.5	<0.00202	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404		
CS - 14	2/29/2024	0.5 - 1	127	<50.0	160	<50.0	160	<0.00200	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401		
CS - 15	2/29/2024	0.5 - 1	719	<49.6	55.5	<49.6	55.5	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 16	2/29/2024	0.5 - 1	1,000	<50.2	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	
CS - 17	2/29/2024	0.5 - 1	1,190	<50.4	52.9	<50.4	52.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402		
CS - 18	2/29/2024	0.5 - 1	710	<50.5	79.3	<50.5	79.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 19	2/29/2024	0.5 - 1	1,910	<49.7	106	<49.7	106	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399		
CS - 20	2/29/2024	0.5 - 1	973	<49.9	64.5	<49.9	64.5	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396		
CS - 21	2/29/2024	0.5 - 1	1,000	<49.6	106	<49.6	106	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398		
CS - 22	2/29/2024	0.5 - 1	468	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
CS - 23	2/29/2024	0.5 - 1	493	<50.1	70.7	<50.1	70.7	<0.00202	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404		
CS - 24	2/29/2024	0.5 - 1	173	<50.4	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	
CS - 25	2/29/2024	0.5 - 1	227	<50.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	
NSW - 1	6/27/2024	0 - 0.5	458	<49.9	53	<49.9	53	<0.00202	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403		
SSW - 1	6/27/2024	0 - 0.5	630	<49.8	107	<49.8	107	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402		
ESW - 1	6/27/2024	0 - 0.5	253	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	
WSW - 1	6/27/2024	0 - 0.5	552	<50	223	<50	223	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402		

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC Remediation Guidelines

TPH = Total Petroleum Hydrocarbons

Ft. = Feet

mg/kg = milligrams per kilogram

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 1: View of the impacted area facing southwest. 2/09/24



PHOTO 2: View of the impacted area facing west. 2/09/24

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 3: View of the impacted area facing west. 2/09/24



PHOTO 4: View of the impacted area facing west. 2/09/24

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 5: View of the excavated area facing southwest. 2/29/24



PHOTO 6: View of the excavated area facing southeast. 2/29/24

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 7: View of the south end of the excavated area facing west. 2/29/24



PHOTO 8: View of the north end of the excavated area facing west. 2/29/24

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 9: View of the temporary monitoring well facing north. 6/14/24



PHOTO 10: View of the temporary monitoring well facing northwest. 6/14/24

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 11: View of the remediated area facing west. 6/27/2024



PHOTO 12: View of the remediated area facing northwest. 6/27/2024

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 13: View of the remediated area facing north. 6/27/2024



PHOTO 14: View of the remediated area facing southeast. 6/27/2024

Goodnight – Cheddar RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 15: View of the remediated area facing south. 6/27/2024



PHOTO 16: View of the remediated area facing south by southwest. 6/27/2024

Goodnight – Chedder RP
32.446816°, -103.687171°
Lea County, New Mexico



PHOTO 17: View of the remediated area facing southwest. 6/27/2024

Groundwater Research

Depth to Groundwater and Water Bodies Map

NMOSE Average Depth to Water

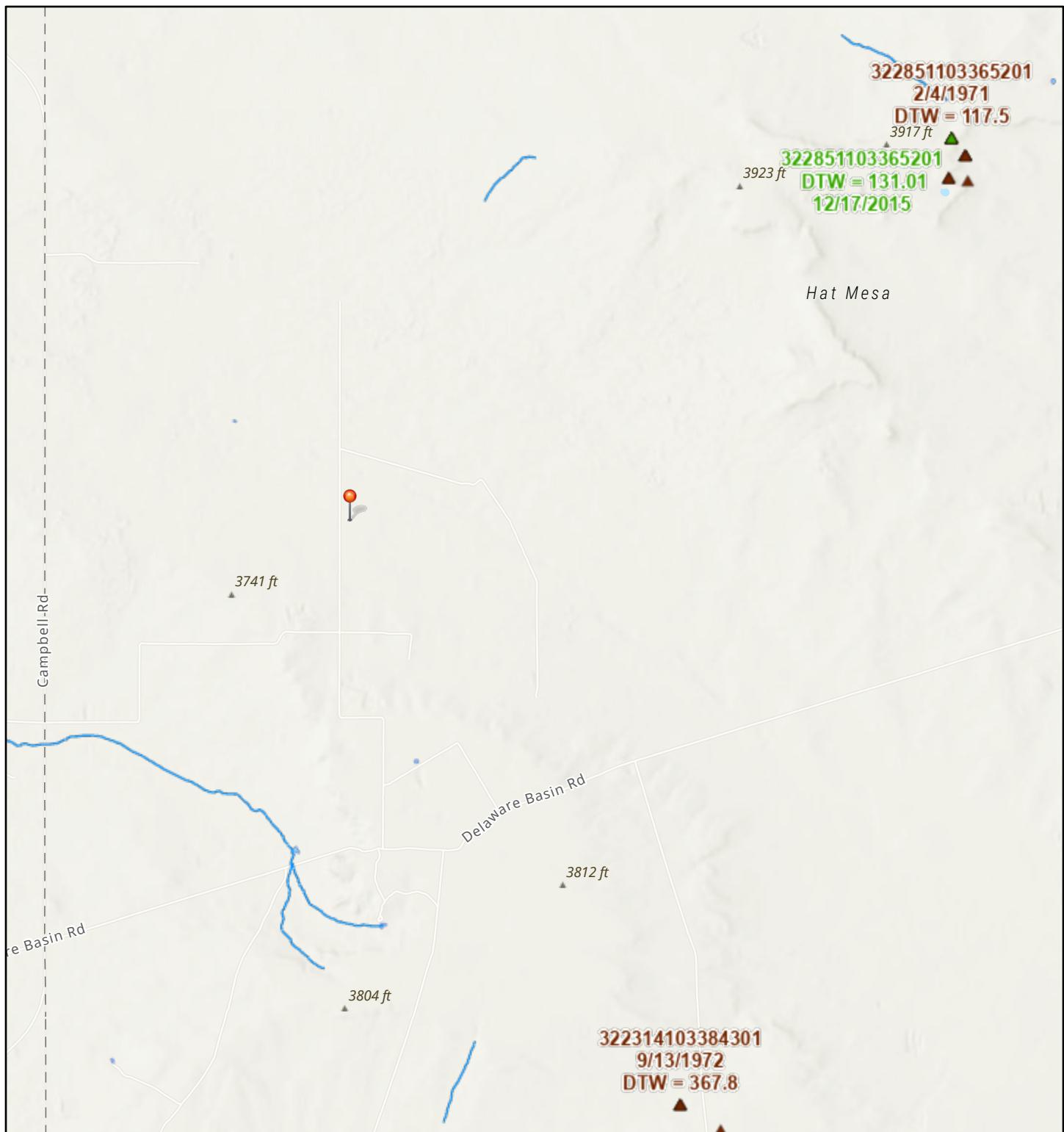
Depth to Groundwater Radius Map

USGS National Water Information System

Karst Potential Map

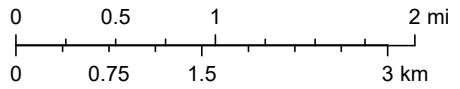
New Mexico NFHL Data

Water Well and Water Body Locations Map



3/11/2024, 3:46:18 PM

1:72,224



- Cheddar RP (Site Location)
- ▲ USGS Historical GW Wells
- ▲ USGS Active Monitoring GW Wells
- OSW Water Bodys
- OSE Streams

Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, USGS, NM OSE

New Mexico Oil Conservation Division



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-										X	Y	Distance	Depth Well	Depth Water	Water Column
	Code	basin	County	64	16	4	Sec	Tws	Rng							
CP 01701 POD1	CP	LE		1	3	35	21S	32E		626652	3589283		3547	840	560	280
C 03717 POD1	C	LE		4	4	1	09	22S	32E	624094	3586365		4400	650		
												Average Depth to Water: 560 feet				
												Minimum Depth: 560 feet				
												Maximum Depth: 560 feet				

Record Count: 2

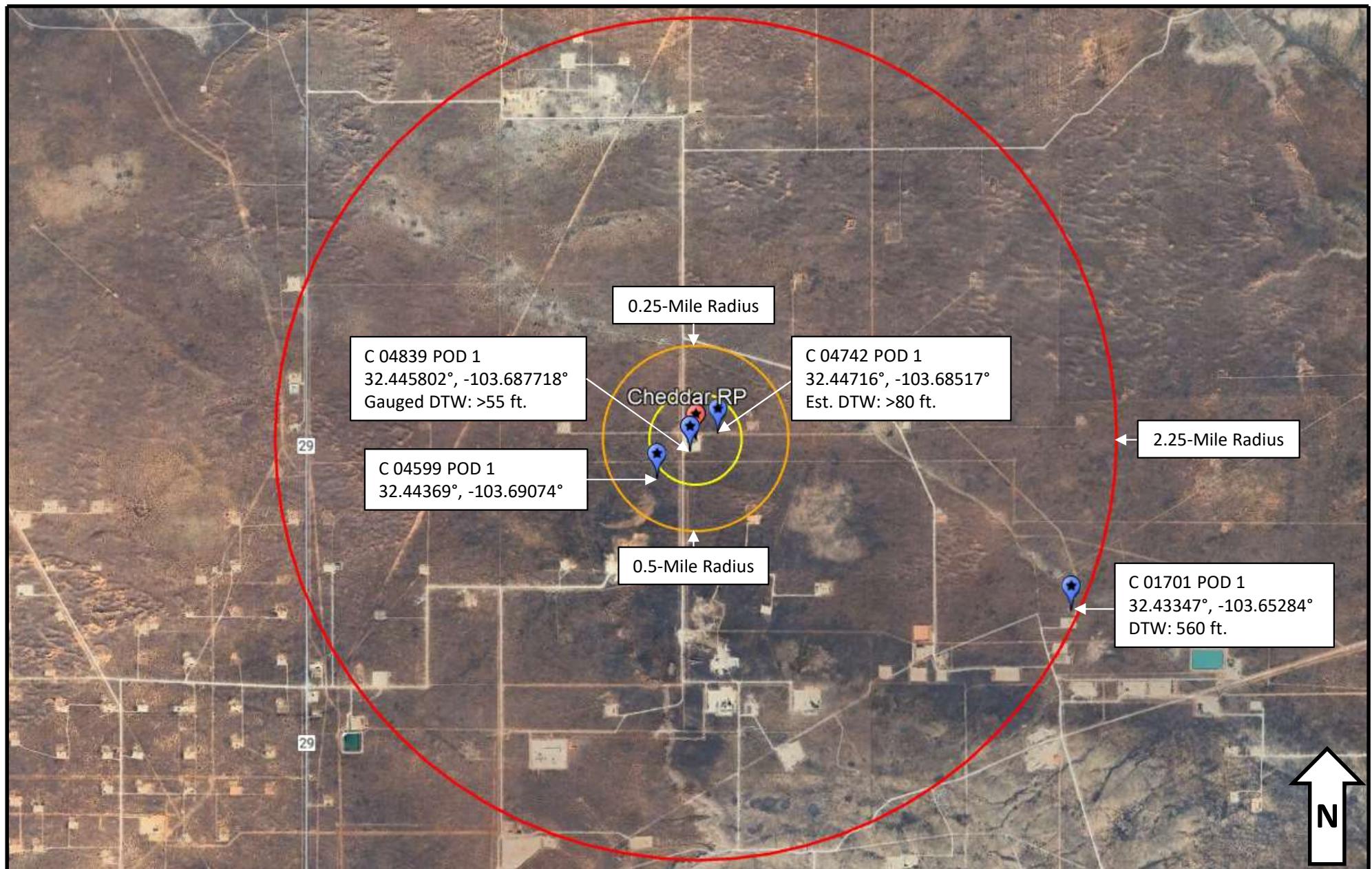
UTMNAD83 Radius Search (in meters):

Easting (X): 623405.91

Northing (Y): 3590712.53

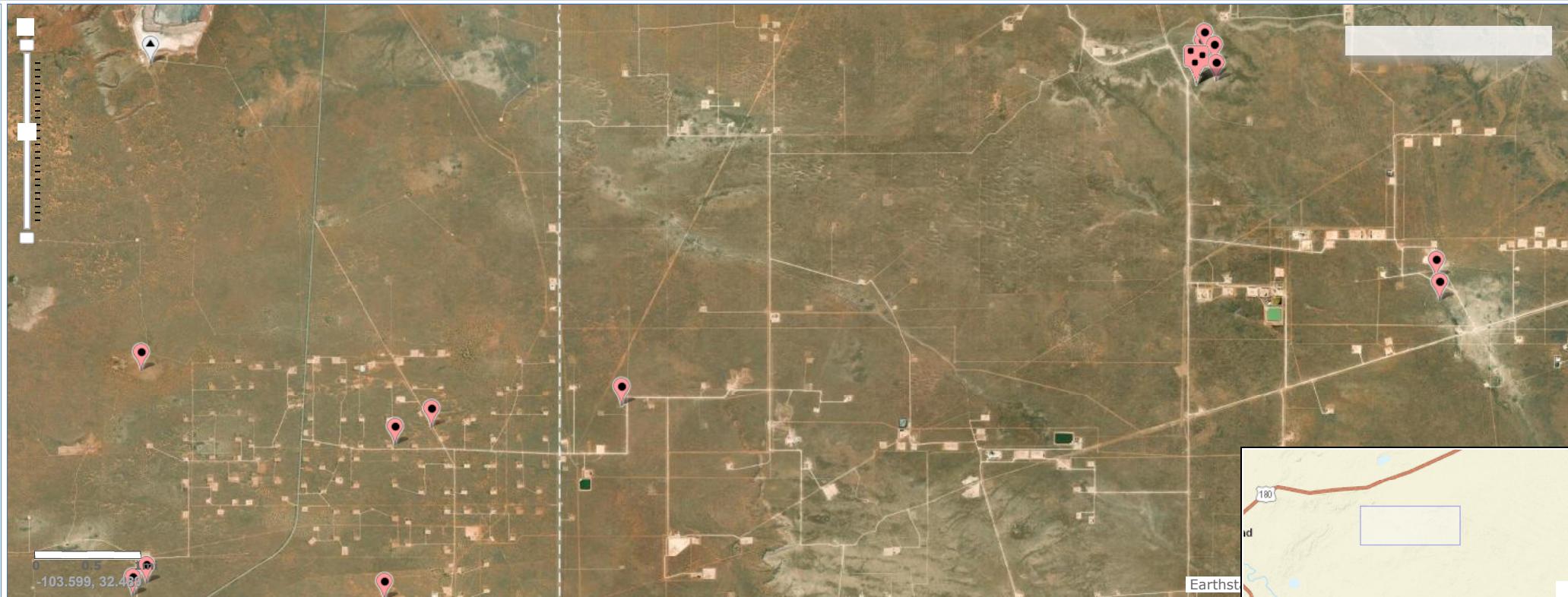
Radius: 4800

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.



Depth to Groundwater Radius Map

Cheddar RP – Goodnight Midstream, LLC
GPS: 32.446816, -103.687171
Lea County, New Mexico



Site Information

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =
• 323039103432501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323039103432501 21S.32E.06.11131

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°30'39", Longitude 103°43'25" NAD27

Land-surface elevation 3,606 feet above NAVD88

The depth of the well is 55 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

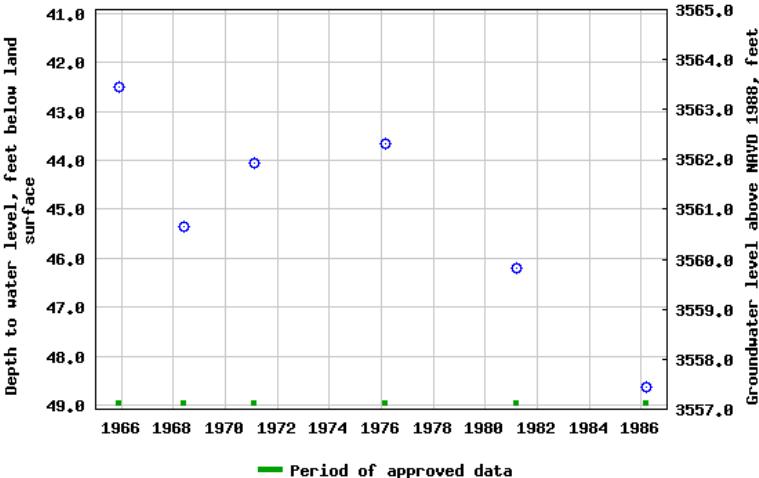
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 323039103432501 21S.32E.06.11131



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

Released to Imaging: 11/26/2024 10:23:13 AM

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =
• 323039103432502

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323039103432502 21S.32E.06.11131A

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°30'39", Longitude 103°43'25" NAD27

Land-surface elevation 3,606 feet above NAVD88

The depth of the well is 55 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

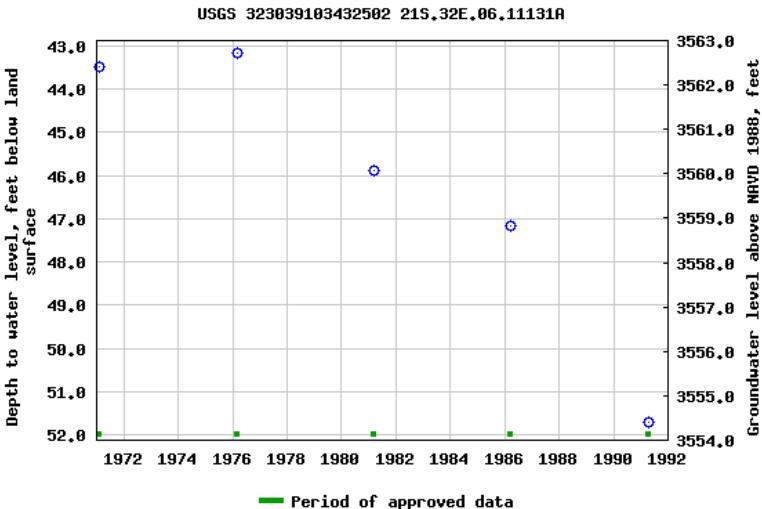
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

Released to Imaging: 11/26/2024 10:23:13 AM

U.S. Received by OCD: 11/14/2024 10:11:03 AM

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

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2024-03-11 23:08:07 EDT

0.58 0.52 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information Geographic Area: United States GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

USGS 323109103323801 20S.34E.34.43421

[Available data for this site](#)

Well Site

DESCRIPTION:

Latitude 32°31'26.6", Longitude 103°32'40.6" NAD83

Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: 100 feet

Land surface altitude: 3,776 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1972-10-02	2024-01-31	10
Revisions	Unavailable (site:0) (timeseries:0)		
Additional Data Sources	Begin Date	End Date	Count

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior | U.S. Geological Survey](#)

Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323109103323801



Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2024-03-11 23:09:04 EDT

0.34 0.31 sdww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 322456103535901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322456103535901 22S.30E.05.43114

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°25'00", Longitude 103°54'10" NAD83

Land-surface elevation 3,117 feet above NAVD88

The depth of the well is 225 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

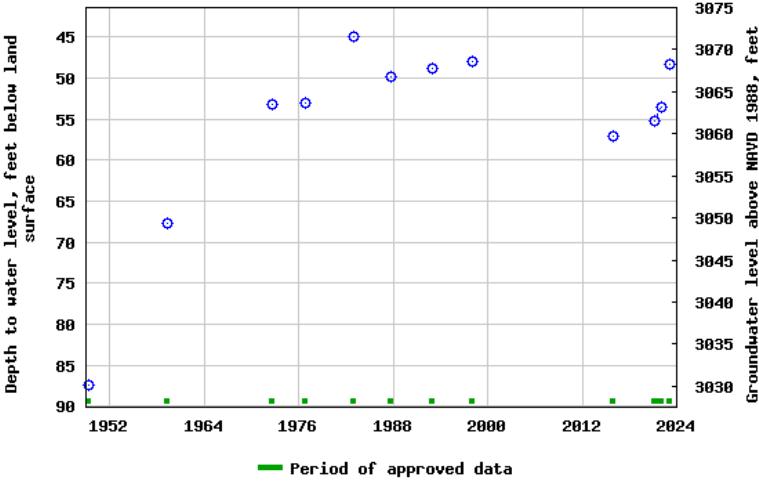
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 322456103535901 22S.30E.05.43114



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

Accessibility

FOIA

Privacy

Policies and Notices

Released to Imaging 11/26/2024 10:23:13 AM

Title: Groundwater for USA: Water Levels

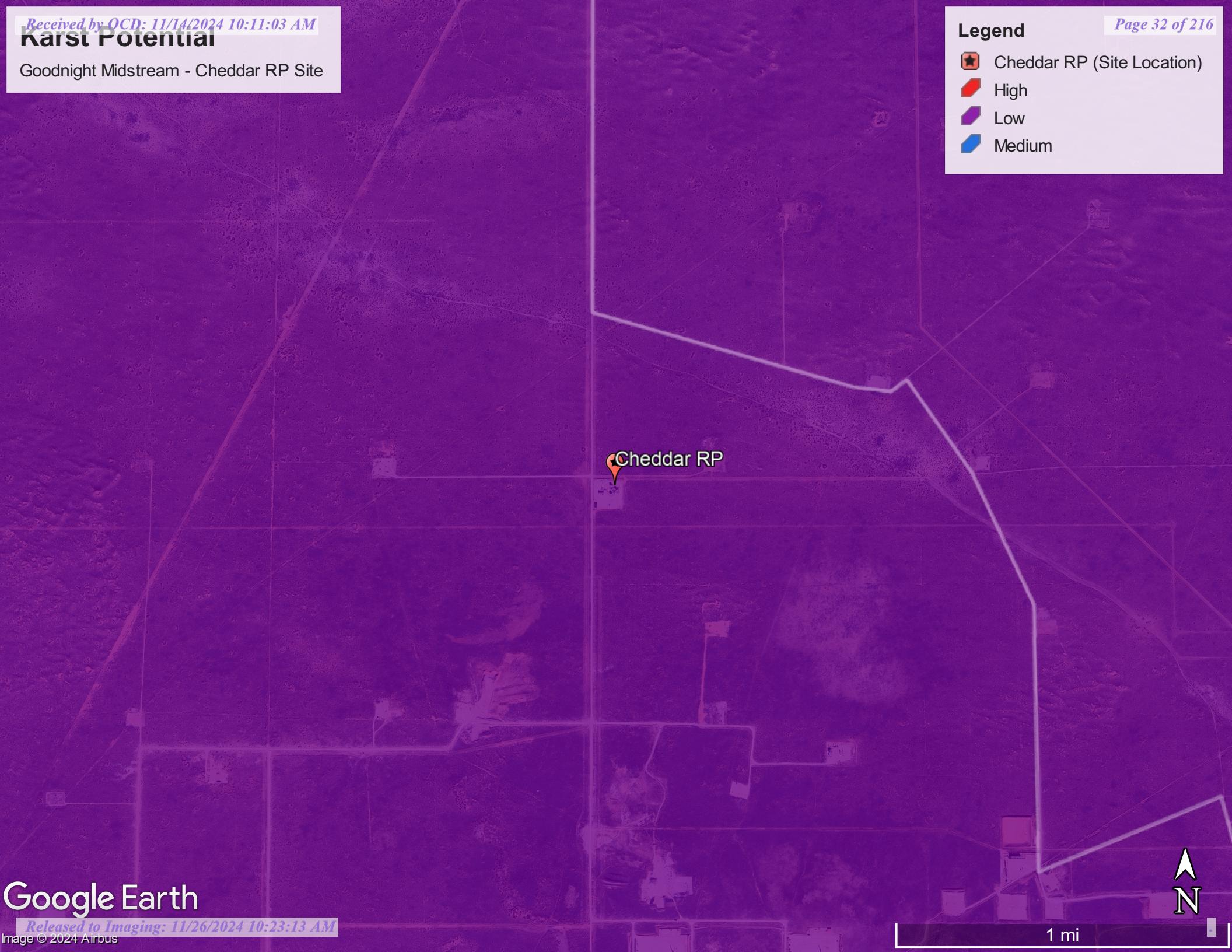


Karst Potential

Goodnight Midstream - Cheddar RP Site

Legend

- ★ Cheddar RP (Site Location)
- High
- Low
- Medium

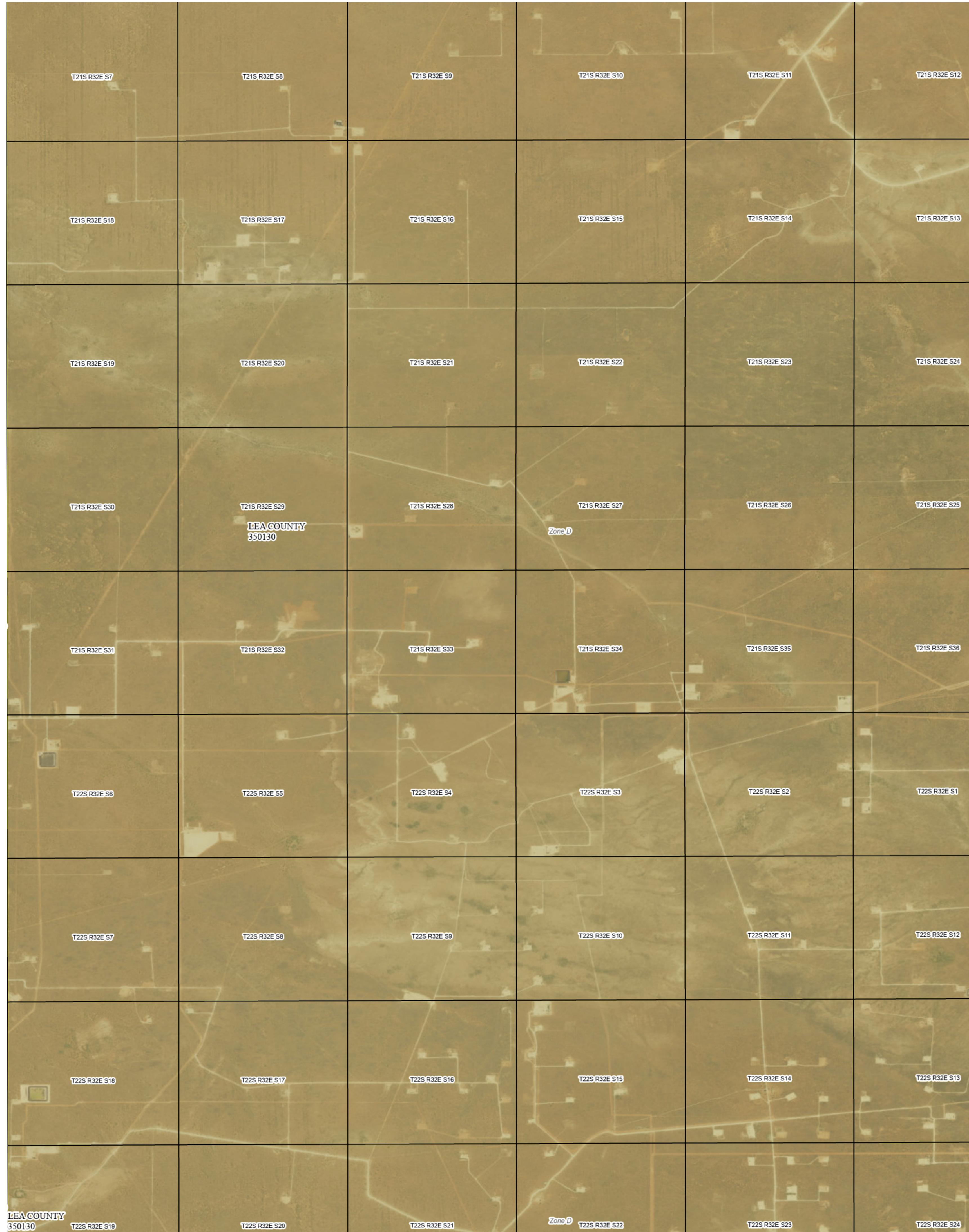


Google Earth

Released to Imaging: 11/26/2024 10:23:13 AM

Image © 2024 Airbus

1 mi



103°36'39.41"W 32°22'3.68"N

FLOOD HAZARD INFORMATIONSEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP
FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes Zone X
	Area with Flood Risk due to Levee Zone D
OTHER AREAS OF FLOOD HAZARD	NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Coastal Transect Baseline Profile Baseline Hydrographic Feature ~~~~ 513 ~~~~ Base Flood Elevation Line (BFE)
OTHER FEATURES	Limit of Study Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-338-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

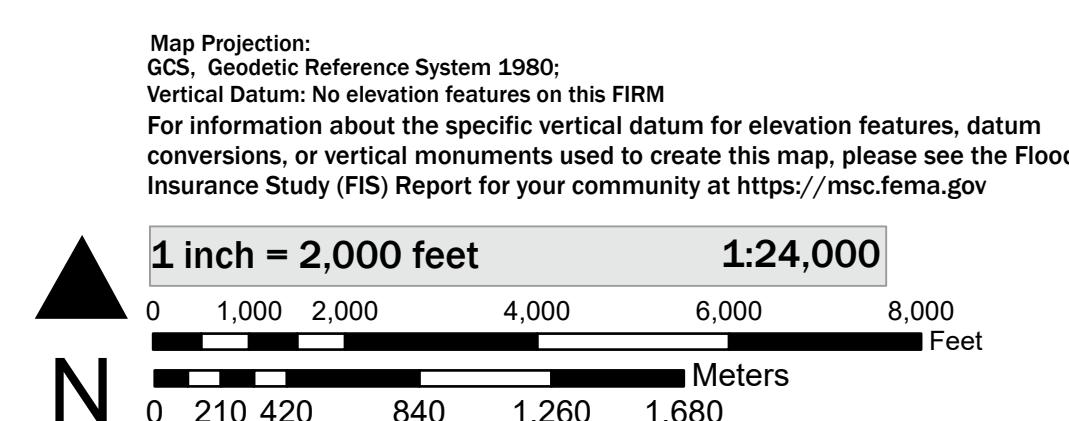
For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAIP, dated April 11, 2018.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 3/11/2024 6:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at <https://www.fema.gov/media-library/assets/documents/18418>

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

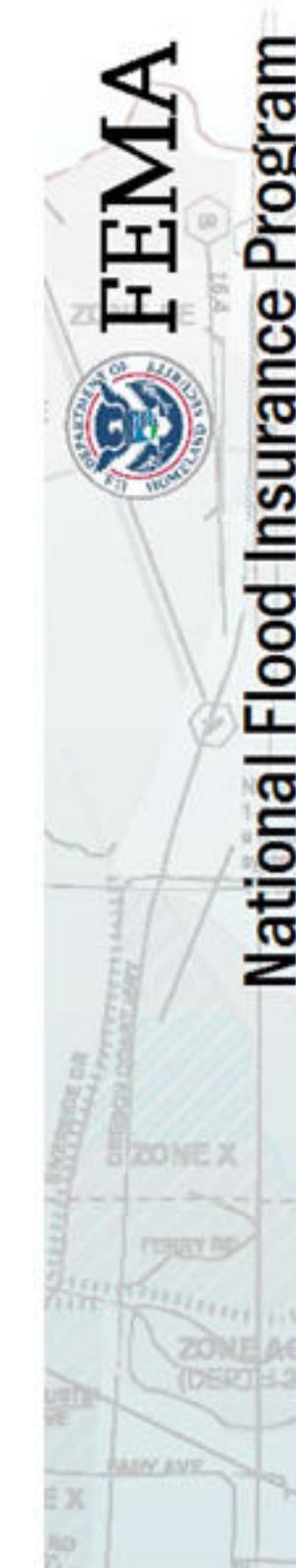
SCALE

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 1575 of 2102

Panel Contains:
COMMUNITY
EDDY COUNTY

NUMBER 350120 PANEL 1575



National Flood Insurance Program

MAP NUMBER
35025C1575D
EFFECTIVE DATE
December 16, 2024



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Kincaid
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 2/19/2024 5:06:35 PM Revision 1

JOB DESCRIPTION

Cheddar RP
New Mexico

JOB NUMBER

880-39266-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
2/19/2024 5:06:35 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
Designee for
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Laboratory Job ID: 880-39266-1
 SDG: New Mexico

Table of Contents

Cover Page	1	3
Table of Contents	3	4
Definitions/Glossary	4	5
Case Narrative	5	6
Client Sample Results	7	6
Surrogate Summary	28	7
QC Sample Results	30	8
QC Association Summary	42	8
Lab Chronicle	50	9
Certification Summary	59	10
Method Summary	60	11
Sample Summary	61	11
Chain of Custody	62	12
Receipt Checklists	65	13
		14

Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Cheddar RP

Job ID: 880-39266-1

Job ID: 880-39266-1

Eurofins Midland

Job Narrative 880-39266-1

REVISION

The report being provided is a revision of the original report sent on 2/16/2024. The report (revision 1) is being revised due to Per client email, requesting TPH to be ran on sample HA-7 0.5-1.

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

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

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

Receipt

The samples were received on 2/13/2024 9:59 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

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-5 (880-39266-1), HA-5 (880-39266-2), HA-6 (880-39266-3), HA-6 (880-39266-4), HA-7 (880-39266-5), HA-7 (880-39266-6), HA-8 (880-39266-7), HA-8 (880-39266-8), PS-1 (880-39266-9), PS-2 (880-39266-10), HA-1 (880-39266-11), HA-1 (880-39266-12), HA-1 (880-39266-13), HA-2 (880-39266-14), HA-2 (880-39266-15), HA-2 (880-39266-16), HA-3 (880-39266-17), HA-3 (880-39266-18), HA-4 (880-39266-19), HA-4 (880-39266-20), PS-3 (880-39266-21), PS-4 (880-39266-22), PS-5 (880-39266-23), PS-6 (880-39266-24), PS-7 (880-39266-25), PS-8 (880-39266-26), PS-9 (880-39266-27), PS-10 (880-39266-28), PS-11 (880-39266-29) and PS-12 (880-39266-30).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PS-9 (880-39266-27), PS-10 (880-39266-28) and PS-11 (880-39266-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72999 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. 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 880-72999/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-6 (880-39266-3), HA-7 (880-39266-5), PS-1 (880-39266-9), HA-1 (880-39266-12), HA-2 (880-39266-14), HA-2 (880-39266-16) and PS-5 (880-39266-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-39266-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73027 and 880-73027 and analytical batch 880-73041 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: HA-7 (880-39266-5) and HA-1 (880-39266-12). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-8 (880-39266-7), PS-2 (880-39266-10) and HA-1 (880-39266-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis

Eurofins Midland

Case Narrative

Client: Earth Systems Response and Restoration
 Project: Cheddar RP

Job ID: 880-39266-1

Job ID: 880-39266-1 (Continued)**Eurofins Midland**

was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (880-39266-11), HA-2 (880-39266-14), PS-3 (880-39266-21) and PS-7 (880-39266-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73139 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: HA-2 (880-39266-14). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73028 and 880-73085 and analytical batch 880-73094 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-6 (880-39266-3), HA-7 (880-39266-5), HA-1 (880-39266-11) and HA-2 (880-39266-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72722 and analytical batch 880-73204 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72722 and analytical batch 880-73204 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.

HPLC/IC

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: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-5

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
Ethylbenzene	<0.00200	U F2	0.00200		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
o-Xylene	<0.00200	U F2	0.00200		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		02/13/24 10:45	02/13/24 15:58	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		70		70 - 130			02/13/24 10:45	02/13/24 15:58	1
1,4-Difluorobenzene (Surr)		100		70 - 130			02/13/24 10:45	02/13/24 15:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/24 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/14/24 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/24 11:11	02/14/24 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 11:11	02/14/24 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 11:11	02/14/24 19:55	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			117	70 - 130			02/13/24 11:11	02/14/24 19:55	1
<i>o</i> -Terphenyl			106	70 - 130			02/13/24 11:11	02/14/24 19:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		5.00		mg/Kg			02/13/24 21:28	1

Client Sample ID: HA-5

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0.5-1

Lab Sample ID: 880-39266-2
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.0		4.99		mg/Kg			02/13/24 21:42	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-6

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/13/24 16:24	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+		70 - 130			02/13/24 10:45	02/13/24 16:24	1
1,4-Difluorobenzene (Surr)	114			70 - 130			02/13/24 10:45	02/13/24 16:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/24 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/14/24 20:58	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	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 20:58	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 20:58	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 20:58	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				02/13/24 11:11	02/14/24 20:58	1
<i>o</i> -Terphenyl	116		70 - 130				02/13/24 11:11	02/14/24 20:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6		4.96		mg/Kg			02/13/24 21:47	1

Client Sample ID: HA-6

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0.5-1

Lab Sample ID: 880-39266-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		4.98		mg/Kg			02/13/24 21:51	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-7

Date Collected: 02/09/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
Toluene	4.03		0.0994		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
Ethylbenzene	5.08		0.0994		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
m-Xylene & p-Xylene	18.9		0.199		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
o-Xylene	7.67		0.0994		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
Xylenes, Total	26.6		0.199		mg/Kg		02/13/24 10:45	02/13/24 18:34	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130				02/13/24 10:45	02/13/24 18:34	50
1,4-Difluorobenzene (Surr)	91		70 - 130				02/13/24 10:45	02/13/24 18:34	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	35.7		0.199		mg/Kg			02/13/24 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13000		249		mg/Kg			02/15/24 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	868		249		mg/Kg		02/13/24 11:11	02/15/24 02:38	5
Diesel Range Organics (Over C10-C28)	12100		249		mg/Kg		02/13/24 11:11	02/15/24 02:38	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		02/13/24 11:11	02/15/24 02:38	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	199	S1+	70 - 130				02/13/24 11:11	02/15/24 02:38	5
o-Terphenyl	130		70 - 130				02/13/24 11:11	02/15/24 02:38	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7410		50.2		mg/Kg			02/13/24 21:56	10

Client Sample ID: HA-7

Date Collected: 02/09/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0.5-1

Lab Sample ID: 880-39266-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/19/24 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/16/24 16:51	02/19/24 03:23	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/16/24 16:51	02/19/24 03:23	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/16/24 16:51	02/19/24 03:23	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-39266-1
SDG: New Mexico

Client Sample ID: HA-7

Date Collected: 02/09/24 00:00
Date Received: 02/13/24 09:59
Sample Depth: 0.5-1

Lab Sample ID: 880-39266-6
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	87		70 - 130

Prepared	Analyzed	Dil Fac
02/16/24 16:51	02/19/24 03:23	1
02/16/24 16:51	02/19/24 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		4.96		mg/Kg			02/13/24 22:10	1

Client Sample ID: HA-8

Date Collected: 02/12/24 00:00
Date Received: 02/13/24 09:59
Sample Depth: 0-0.5

Lab Sample ID: 880-39266-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 16:42	02/14/24 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 16:42	02/14/24 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 16:42	02/14/24 13:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/13/24 16:42	02/14/24 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 16:42	02/14/24 13:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/13/24 16:42	02/14/24 13:35	1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Prepared	Analyzed	Dil Fac
02/13/24 16:42	02/14/24 13:35	1
02/13/24 16:42	02/14/24 13:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/24 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.0		50.0		mg/Kg			02/14/24 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/24 11:11	02/14/24 21:19	1
Diesel Range Organics (Over C10-C28)	97.0		50.0		mg/Kg		02/13/24 11:11	02/14/24 21:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 11:11	02/14/24 21:19	1

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	108		70 - 130

Prepared	Analyzed	Dil Fac
02/13/24 11:11	02/14/24 21:19	1
02/13/24 11:11	02/14/24 21:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.99		mg/Kg			02/13/24 22:14	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-39266-1
SDG: New Mexico

Client Sample ID: HA-8

Date Collected: 02/12/24 00:00
Date Received: 02/13/24 09:59
Sample Depth: 0.5-1

Lab Sample ID: 880-39266-8

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.4		4.98		mg/Kg			02/13/24 22:19	1

Client Sample ID: PS-1

Date Collected: 02/12/24 00:00
Date Received: 02/13/24 09:59
Sample Depth: 0-0.5

Lab Sample ID: 880-39266-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50	S1-	70 - 130				02/13/24 10:45	02/13/24 17:17	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/13/24 10:45	02/13/24 17:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/24 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	<49.9	U	49.9		mg/Kg			02/14/24 21:40	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	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/14/24 21:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/14/24 21:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/14/24 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				02/13/24 11:11	02/14/24 21:40	1
<i>o-Terphenyl</i>	89		70 - 130				02/13/24 11:11	02/14/24 21:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		5.03		mg/Kg			02/13/24 22:24	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-2

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 16:42	02/14/24 13:56	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		68	S1-	70 - 130			02/13/24 16:42	02/14/24 13:56	1
1,4-Difluorobenzene (Surr)		79		70 - 130			02/13/24 16:42	02/14/24 13:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/24 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/14/24 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/14/24 22:01	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/14/24 22:01	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/14/24 22:01	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			112	70 - 130			02/13/24 11:11	02/14/24 22:01	1
<i>o</i> -Terphenyl			93	70 - 130			02/13/24 11:11	02/14/24 22:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		4.98		mg/Kg			02/13/24 22:28	1

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.72		0.0994		mg/Kg		02/13/24 10:45	02/13/24 19:00	50
Toluene	120		2.00		mg/Kg		02/13/24 16:42	02/14/24 16:40	1000
Ethylbenzene	68.1		2.00		mg/Kg		02/13/24 16:42	02/14/24 16:40	1000
m-Xylene & p-Xylene	161		3.99		mg/Kg		02/13/24 16:42	02/14/24 16:40	1000
<i>o</i> -Xylene	54.3		2.00		mg/Kg		02/13/24 16:42	02/14/24 16:40	1000
Xylenes, Total	215		3.99		mg/Kg		02/13/24 16:42	02/14/24 16:40	1000
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		614	S1+	70 - 130			02/13/24 10:45	02/13/24 19:00	50

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-11

Matrix: Solid

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

Analyte	Result	%Recovery	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	127			70 - 130				02/13/24 10:45	02/13/24 19:00	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	409		3.99		mg/Kg			02/14/24 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21500		251		mg/Kg			02/15/24 02:17	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	3930		251		mg/Kg		02/13/24 11:11	02/15/24 02:17	5
Diesel Range Organics (Over C10-C28)	17600		251		mg/Kg		02/13/24 11:11	02/15/24 02:17	5
Oil Range Organics (Over C28-C36)	<251	U	251		mg/Kg		02/13/24 11:11	02/15/24 02:17	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		101		mg/Kg			02/13/24 22:33	20

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Lab Sample ID: 880-39266-12

Matrix: Solid

Date Received: 02/13/24 09:59

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U	0.0399		mg/Kg		02/13/24 10:45	02/13/24 19:25	20
Toluene	0.933		0.0399		mg/Kg		02/13/24 10:45	02/13/24 19:25	20
Ethylbenzene	1.26		0.0399		mg/Kg		02/13/24 10:45	02/13/24 19:25	20
m-Xylene & p-Xylene	4.16		0.0798		mg/Kg		02/13/24 10:45	02/13/24 19:25	20
o-Xylene	7.09		0.0399		mg/Kg		02/13/24 10:45	02/13/24 19:25	20
Xylenes, Total	11.3		0.0798		mg/Kg		02/13/24 10:45	02/13/24 19:25	20

Analyte	Result	%Recovery	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	237	S1+		70 - 130				02/13/24 10:45	02/13/24 19:25	20
1,4-Difluorobenzene (Surr)	131	S1+		70 - 130				02/13/24 10:45	02/13/24 19:25	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	13.4		0.0798		mg/Kg			02/13/24 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1350		50.5		mg/Kg			02/15/24 03:20	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-39266-1
SDG: New Mexico

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0.5-1

Lab Sample ID: 880-39266-12

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	161		50.5		mg/Kg		02/13/24 11:11	02/15/24 03:20	1
Diesel Range Organics (Over C10-C28)	1190		50.5		mg/Kg		02/13/24 11:11	02/15/24 03:20	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/15/24 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/13/24 11:11	02/15/24 03:20	1
o-Terphenyl	95		70 - 130				02/13/24 11:11	02/15/24 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		24.9		mg/Kg		02/13/24 22:47		5

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 1.5-2

Lab Sample ID: 880-39266-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				02/13/24 10:45	02/13/24 18:09	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/13/24 10:45	02/13/24 18:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		02/13/24 18:09		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg		02/14/24 22:22		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/13/24 11:11	02/14/24 22:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 11:11	02/14/24 22:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 11:11	02/14/24 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/13/24 11:11	02/14/24 22:22	1
o-Terphenyl	89		70 - 130				02/13/24 11:11	02/14/24 22:22	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 1.5-2

Lab Sample ID: 880-39266-13

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		5.05		mg/Kg			02/13/24 22:51	1

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0494		0.0199		mg/Kg				10
Toluene	<0.0199	U	0.0199		mg/Kg				10
Ethylbenzene	<0.0199	U	0.0199		mg/Kg				10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg				10
o-Xylene	<0.0199	U	0.0199		mg/Kg				10
Xylenes, Total	<0.0398	U	0.0398		mg/Kg				10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130				02/14/24 14:00	02/14/24 16:19	10
1,4-Difluorobenzene (Surr)	105		70 - 130				02/14/24 14:00	02/14/24 16:19	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0494		0.0398		mg/Kg			02/14/24 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	152		50.0		mg/Kg			02/14/24 22:44	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	<50.0	U	50.0		mg/Kg			02/13/24 11:11	02/14/24 22:44	1
Diesel Range Organics (Over C10-C28)	152		50.0		mg/Kg			02/13/24 11:11	02/14/24 22:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg			02/13/24 11:11	02/14/24 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	127		70 - 130				02/13/24 11:11	02/14/24 22:44	1	
<i>o-Terphenyl</i>	106		70 - 130				02/13/24 11:11	02/14/24 22:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		4.98		mg/Kg			02/13/24 23:05	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0.5-1

Lab Sample ID: 880-39266-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
Toluene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg	02/13/24 16:42	02/14/24 14:37		1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		89		70 - 130			02/13/24 16:42	02/14/24 14:37	1
1,4-Difluorobenzene (Surr)		82		70 - 130			02/13/24 16:42	02/14/24 14:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/24 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117		50.2		mg/Kg			02/14/24 23:05	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	<50.2	U	50.2		mg/Kg	02/13/24 11:11	02/14/24 23:05		1
Diesel Range Organics (Over C10-C28)	117		50.2		mg/Kg	02/13/24 11:11	02/14/24 23:05		1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg	02/13/24 11:11	02/14/24 23:05		1
Surrogate									Dil Fac
1-Chlorooctane	116		70 - 130			02/13/24 11:11	02/14/24 23:05		1
<i>o-Terphenyl</i>	98		70 - 130			02/13/24 11:11	02/14/24 23:05		1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.04		mg/Kg			02/13/24 23:10	1

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 1.5-2

Lab Sample ID: 880-39266-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
Toluene	<0.00199	U	0.00199		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
o-Xylene	<0.00199	U	0.00199		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg	02/13/24 10:45	02/13/24 21:58		1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		142	S1+	70 - 130			02/13/24 10:45	02/13/24 21:58	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 1.5-2

Lab Sample ID: 880-39266-16

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	02/13/24 10:45	02/13/24 21:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/24 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/14/24 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/14/24 23:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/14/24 23:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/14/24 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	02/13/24 11:11	02/14/24 23:26	1
o-Terphenyl	126		70 - 130	02/13/24 11:11	02/14/24 23:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		5.02		mg/Kg			02/13/24 23:14	1

Client Sample ID: HA-3

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 22:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 22:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 22:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/24 10:45	02/13/24 22:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/13/24 22:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/24 10:45	02/13/24 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/13/24 10:45	02/13/24 22:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/13/24 10:45	02/13/24 22:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/24 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	489		50.4		mg/Kg			02/15/24 02:59	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-17

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	<50.4	U	50.4		mg/Kg		02/13/24 11:11	02/15/24 02:59	1
Diesel Range Organics (Over C10-C28)	489		50.4		mg/Kg		02/13/24 11:11	02/15/24 02:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/13/24 11:11	02/15/24 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				02/13/24 11:11	02/15/24 02:59	1
<i>o-Terphenyl</i>	100		70 - 130				02/13/24 11:11	02/15/24 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	523		5.05		mg/Kg			02/13/24 23:19	1

Client Sample ID: HA-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0.5-1

Lab Sample ID: 880-39266-18

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.2		5.04		mg/Kg			02/13/24 23:24	1

Client Sample ID: HA-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
<i>o-Xylene</i>	<0.00201	U	0.00201		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/24 10:45	02/13/24 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				02/13/24 10:45	02/13/24 22:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/13/24 10:45	02/13/24 22:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/24 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/14/24 23:47	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-19

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	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 23:47	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 23:47	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 11:11	02/14/24 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				02/13/24 11:11	02/14/24 23:47	1
o-Terphenyl	104		70 - 130				02/13/24 11:11	02/14/24 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		4.99		mg/Kg			02/13/24 23:28	1

Client Sample ID: HA-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0.5-1

Lab Sample ID: 880-39266-20

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.02		mg/Kg			02/13/24 23:33	1

Client Sample ID: PS-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/24 16:42	02/14/24 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130				02/13/24 16:42	02/14/24 14:57	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/13/24 16:42	02/14/24 14:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/24 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/24 00:31	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-21

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	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		4.97		mg/Kg		02/13/24 13:05		1

Client Sample ID: PS-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-22

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 23:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 23:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 23:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/13/24 23:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/13/24 23:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/13/24 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/13/24 10:45	02/13/24 23:42	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/13/24 10:45	02/13/24 23:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		02/13/24 23:42		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		02/15/24 00:52		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 00:52	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/13/24 10:45	02/13/24 23:42	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/13/24 10:45	02/13/24 23:42	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-4

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-22

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9		4.95		mg/Kg			02/13/24 13:25	1

Client Sample ID: PS-5

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 10:45	02/14/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				02/13/24 10:45	02/14/24 00:08	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130				02/13/24 10:45	02/14/24 00:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/24 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/24 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/13/24 11:11	02/15/24 01:13	1
o-Terphenyl	91		70 - 130				02/13/24 11:11	02/15/24 01:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		5.05		mg/Kg			02/13/24 13:32	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-6

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-24

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/24 10:45	02/14/24 00:34	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		119		70 - 130			02/13/24 10:45	02/14/24 00:34	1
1,4-Difluorobenzene (Surr)		91		70 - 130			02/13/24 10:45	02/14/24 00:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/24 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/15/24 01:35	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	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/15/24 01:35	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/15/24 01:35	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 11:11	02/15/24 01:35	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		107		70 - 130			02/13/24 11:11	02/15/24 01:35	1
<i>o</i> -Terphenyl		88		70 - 130			02/13/24 11:11	02/15/24 01:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.3		5.03		mg/Kg			02/13/24 13:52	1

Client Sample ID: PS-7

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 16:42	02/14/24 15:18	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		58	S1-	70 - 130			02/13/24 16:42	02/14/24 15:18	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-7

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-25

Matrix: Solid

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

Analyte	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130	02/13/24 16:42	02/14/24 15:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/24 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/24 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 11:11	02/15/24 01:56	1

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

Analyte	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/13/24 11:11	02/15/24 01:56	1
o-Terphenyl	93		70 - 130	02/13/24 11:11	02/15/24 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.8		5.04		mg/Kg			02/13/24 13:59	1

Client Sample ID: PS-8

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-26

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 01:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 01:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 01:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/13/24 10:45	02/14/24 01:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:45	02/14/24 01:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/13/24 10:45	02/14/24 01:25	1

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

Analyte	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	02/13/24 10:45	02/14/24 01:25	1
1,4-Difluorobenzene (Surr)	75		70 - 130	02/13/24 10:45	02/14/24 01:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/24 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/15/24 03:41	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-39266-1
SDG: New Mexico

Client Sample ID: PS-8

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-26

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	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/15/24 03:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/15/24 03:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 11:11	02/15/24 03:41	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/13/24 11:11	02/15/24 03:41	1
o-Terphenyl	97		70 - 130				02/13/24 11:11	02/15/24 03:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		5.04		mg/Kg			02/13/24 14:06	1

Client Sample ID: PS-9

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Sample Depth: 0-0.5

Lab Sample ID: 880-39266-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/24 10:00	02/13/24 18:15	1
Surrogate									
4-Bromofluorobenzene (Surr)	83		70 - 130				02/13/24 10:00	02/13/24 18:15	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130				02/13/24 10:00	02/13/24 18:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/24 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/14/24 10:09	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	<49.9	U	49.9		mg/Kg		02/13/24 16:31	02/14/24 10:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 16:31	02/14/24 10:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 16:31	02/14/24 10:09	1
Surrogate									
1-Chlorooctane	104		70 - 130				02/13/24 16:31	02/14/24 10:09	1
o-Terphenyl	86		70 - 130				02/13/24 16:31	02/14/24 10:09	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-9

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-27

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		5.01		mg/Kg			02/13/24 14:13	1

Client Sample ID: PS-10

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/24 10:00	02/13/24 18:36	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130				02/13/24 10:00	02/13/24 18:36	1
1,4-Difluorobenzene (Surr)	71		70 - 130				02/13/24 10:00	02/13/24 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/24 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/14/24 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/13/24 16:31	02/14/24 11:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 16:31	02/14/24 11:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 16:31	02/14/24 11:14	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				02/13/24 16:31	02/14/24 11:14	1
<i>o</i> -Terphenyl	102		70 - 130				02/13/24 16:31	02/14/24 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		4.99		mg/Kg			02/13/24 14:19	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-11

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/24 10:00	02/13/24 18:56	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		66	S1-	70 - 130			02/13/24 10:00	02/13/24 18:56	1
1,4-Difluorobenzene (Surr)		86		70 - 130			02/13/24 10:00	02/13/24 18:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/24 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/15/24 16:58	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	<50.2	U	50.2		mg/Kg		02/15/24 09:59	02/15/24 16:58	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/15/24 09:59	02/15/24 16:58	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/15/24 09:59	02/15/24 16:58	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			124	70 - 130			02/15/24 09:59	02/15/24 16:58	1
<i>o</i> -Terphenyl			100	70 - 130			02/15/24 09:59	02/15/24 16:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		5.00		mg/Kg			02/13/24 14:26	1

Client Sample ID: PS-12

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-30

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/13/24 10:00	02/13/24 19:17	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		86		70 - 130			02/13/24 10:00	02/13/24 19:17	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-12

Date Collected: 02/12/24 00:00
 Date Received: 02/13/24 09:59
 Sample Depth: 0-0.5

Lab Sample ID: 880-39266-30

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	02/13/24 10:00	02/13/24 19:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg	D		02/13/24 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg	D		02/15/24 17:20	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	<50.3	U	50.3		mg/Kg	D	02/15/24 09:59	02/15/24 17:20	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg	D	02/15/24 09:59	02/15/24 17:20	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg	D	02/15/24 09:59	02/15/24 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	02/15/24 09:59	02/15/24 17:20	1
o-Terphenyl	86		70 - 130	02/15/24 09:59	02/15/24 17:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6		4.96		mg/Kg	D		02/13/24 14:33	1

Eurofins Midland

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (70-130)	DFBZ1 (70-130)	
880-39094-A-1-B MS	Matrix Spike	104	97	
880-39094-A-1-C MSD	Matrix Spike Duplicate	107	93	
880-39266-1	HA-5	70	100	
880-39266-1 MS	HA-5	100	82	
880-39266-1 MSD	HA-5	145 S1+	87	
880-39266-3	HA-6	158 S1+	114	
880-39266-5	HA-7	182 S1+	91	
880-39266-7	HA-8	55 S1-	88	
880-39266-7 MS	HA-8	110	93	
880-39266-7 MSD	HA-8	115	92	
880-39266-9	PS-1	50 S1-	110	
880-39266-10	PS-2	68 S1-	79	
880-39266-11	HA-1	614 S1+	127	
880-39266-12	HA-1	237 S1+	131 S1+	
880-39266-13	HA-1	126	85	
880-39266-14	HA-2	184 S1+	105	
880-39266-15	HA-2	89	82	
880-39266-16	HA-2	142 S1+	83	
880-39266-17	HA-3	119	94	
880-39266-19	HA-4	113	95	
880-39266-21	PS-3	63 S1-	77	
880-39266-22	PS-4	117	78	
880-39266-23	PS-5	100	135 S1+	
880-39266-24	PS-6	119	91	
880-39266-25	PS-7	58 S1-	81	
880-39266-26	PS-8	70	75	
880-39266-27	PS-9	83	58 S1-	
880-39266-28	PS-10	65 S1-	71	
880-39266-29	PS-11	66 S1-	86	
880-39266-30	PS-12	86	76	
LCS 880-73002/1-A	Lab Control Sample	107	103	
LCS 880-73027/1-A	Lab Control Sample	108	90	
LCS 880-73089/1-A	Lab Control Sample	111	84	
LCSD 880-73002/2-A	Lab Control Sample Dup	108	99	
LCSD 880-73027/2-A	Lab Control Sample Dup	129	86	
LCSD 880-73089/2-A	Lab Control Sample Dup	110	94	
MB 880-73002/5-A	Method Blank	75	81	
MB 880-73027/5-A	Method Blank	76	92	
MB 880-73089/5-A	Method Blank	84	96	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 880-39266-1

Project/Site: Cheddar RP

SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
880-39032-A-41-E MS	Matrix Spike	126	87	
880-39032-A-41-F MSD	Matrix Spike Duplicate	120	85	
880-39266-1	HA-5	117	106	
880-39266-1 MS	HA-5	108	83	
880-39266-1 MSD	HA-5	113	86	
880-39266-3	HA-6	135 S1+	116	
880-39266-5	HA-7	199 S1+	130	
880-39266-6	HA-7	111	87	
880-39266-7	HA-8	129	108	
880-39266-9	PS-1	109	89	
880-39266-10	PS-2	112	93	
880-39266-11	HA-1	379 S1+	205 S1+	
880-39266-12	HA-1	121	95	
880-39266-13	HA-1	106	89	
880-39266-14	HA-2	127	106	
880-39266-15	HA-2	116	98	
880-39266-16	HA-2	143 S1+	126	
880-39266-17	HA-3	123	100	
880-39266-19	HA-4	123	104	
880-39266-21	PS-3	107	87	
880-39266-22	PS-4	105	88	
880-39266-23	PS-5	112	91	
880-39266-24	PS-6	107	88	
880-39266-25	PS-7	113	93	
880-39266-26	PS-8	112	97	
880-39266-27	PS-9	104	86	
880-39266-27 MS	PS-9	112	81	
880-39266-27 MSD	PS-9	127	91	
880-39266-28	PS-10	124	102	
880-39266-29	PS-11	124	100	
880-39266-30	PS-12	101	86	
880-39488-A-21-C MS	Matrix Spike	103	80	
880-39488-A-21-D MSD	Matrix Spike Duplicate	96	70	
LCS 880-72722/2-A	Lab Control Sample	113	120	
LCS 880-73028/2-A	Lab Control Sample	105	101	
LCS 880-73085/2-A	Lab Control Sample	112	110	
LCS 880-73393/2-A	Lab Control Sample	103	105	
LCSD 880-72722/3-A	Lab Control Sample Dup	110	111	
LCSD 880-73028/3-A	Lab Control Sample Dup	98	101	
LCSD 880-73085/3-A	Lab Control Sample Dup	106	109	
LCSD 880-73393/3-A	Lab Control Sample Dup	102	96	
MB 880-72722/1-A	Method Blank	249 S1+	223 S1+	
MB 880-73028/1-A	Method Blank	231 S1+	210 S1+	
MB 880-73085/1-A	Method Blank	227 S1+	206 S1+	
MB 880-73393/1-A	Method Blank	127	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-73002/5-A****Matrix: Solid****Analysis Batch: 72999****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 73002**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/24 08:20	02/13/24 11:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/24 08:20	02/13/24 11:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/24 08:20	02/13/24 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/13/24 08:20	02/13/24 11:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/24 08:20	02/13/24 11:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/13/24 08:20	02/13/24 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/13/24 08:20	02/13/24 11:22	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/13/24 08:20	02/13/24 11:22	1

Lab Sample ID: LCS 880-73002/1-A**Matrix: Solid****Analysis Batch: 72999****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 73002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
Benzene	0.100	0.1063		mg/Kg		106	70 - 130
Toluene	0.100	0.1103		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1145		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-73002/2-A**Matrix: Solid****Analysis Batch: 72999****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 73002**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	2
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	1
Ethylbenzene	0.100	0.1189		mg/Kg		119	70 - 130	3
m-Xylene & p-Xylene	0.200	0.2319		mg/Kg		116	70 - 130	2
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130	2

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-39094-A-1-B MS**Matrix: Solid****Analysis Batch: 72999****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 73002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec
Benzene	<0.00200	U	0.0996	0.09155		mg/Kg		92
Toluene	<0.00200	U	0.0996	0.09811		mg/Kg		98

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 880-39094-A-1-B MS****Matrix: Solid****Analysis Batch: 72999**

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U	0.0996	0.1006		mg/Kg	101	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1963		mg/Kg	99	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.09523		mg/Kg	95	70 - 130	

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-39094-A-1-C MSD**Matrix: Solid****Analysis Batch: 72999**

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
Benzene	<0.00200	U	0.0990	0.09378		mg/Kg	95	70 - 130	2
Toluene	<0.00200	U	0.0990	0.09849		mg/Kg	99	70 - 130	0
Ethylbenzene	<0.00200	U	0.0990	0.1002		mg/Kg	101	70 - 130	0
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1976		mg/Kg	100	70 - 130	1
o-Xylene	<0.00200	U	0.0990	0.09587		mg/Kg	96	70 - 130	1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-73027/5-A**Matrix: Solid****Analysis Batch: 73041**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	02/13/24 10:45	02/13/24 15:31		1
Toluene	<0.00200	U	0.00200		mg/Kg	02/13/24 10:45	02/13/24 15:31		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	02/13/24 10:45	02/13/24 15:31		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	02/13/24 10:45	02/13/24 15:31		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	02/13/24 10:45	02/13/24 15:31		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	02/13/24 10:45	02/13/24 15:31		1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1067		mg/Kg	107	70 - 130	
Toluene	0.100	0.09335		mg/Kg	93	70 - 130	
Ethylbenzene	0.100	0.1136		mg/Kg	114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2461		mg/Kg	123	70 - 130	

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCS 880-73027/1-A****Matrix: Solid****Analysis Batch: 73041****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 73027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	RPD	Limit
o-Xylene	0.100	0.1000		mg/Kg	100	70 - 130		

Surrogate	%Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-73027/2-A**Matrix: Solid****Analysis Batch: 73041****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 73027**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	Limit
Benzene	0.100	0.08509		mg/Kg	85	70 - 130	23	35
Toluene	0.100	0.08631		mg/Kg	86	70 - 130	8	35
Ethylbenzene	0.100	0.08846		mg/Kg	88	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1876		mg/Kg	94	70 - 130	27	35
o-Xylene	0.100	0.08980		mg/Kg	90	70 - 130	11	35

Surrogate	%Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-39266-1 MS**Matrix: Solid****Analysis Batch: 73041****Client Sample ID: HA-5****Prep Type: Total/NA****Prep Batch: 73027**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08141		mg/Kg	82	70 - 130		
Toluene	<0.00200	U	0.0996	0.07035		mg/Kg	71	70 - 130		
Ethylbenzene	<0.00200	U F2	0.0996	0.07495		mg/Kg	74	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.1982		mg/Kg	99	70 - 130		
o-Xylene	<0.00200	U F2	0.0996	0.07936		mg/Kg	80	70 - 130		

Surrogate	%Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-39266-1 MSD**Matrix: Solid****Analysis Batch: 73041****Client Sample ID: HA-5****Prep Type: Total/NA****Prep Batch: 73027**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit
Benzene	<0.00200	U	0.0990	0.1084		mg/Kg	109	70 - 130	28	35
Toluene	<0.00200	U	0.0990	0.09861		mg/Kg	100	70 - 130	33	35
Ethylbenzene	<0.00200	U F2	0.0990	0.1200	F2	mg/Kg	120	70 - 130	46	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.2673	F1	mg/Kg	135	70 - 130	30	35
o-Xylene	<0.00200	U F2	0.0990	0.1249	F2	mg/Kg	126	70 - 130	45	35

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: 880-39266-1 MSD

Matrix: Solid

Analysis Batch: 73041

Client Sample ID: HA-5
Prep Type: Total/NA
Prep Batch: 73027

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-73089/5-A

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73089

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 13:14		1
Toluene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 13:14		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 13:14		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	02/13/24 16:42	02/14/24 13:14		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	02/13/24 16:42	02/14/24 13:14		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	02/13/24 16:42	02/14/24 13:14		1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	84		70 - 130	02/13/24 16:42	02/14/24 13:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/13/24 16:42	02/14/24 13:14	1

Lab Sample ID: LCS 880-73089/1-A

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73089

Analyte	Spike	LCS	LCS	D	%Rec	Limits	%Rec
	Added	Result	Qualifier				
Benzene	0.100	0.07510		mg/Kg	75	70 - 130	
Toluene	0.100	0.1081		mg/Kg	108	70 - 130	
Ethylbenzene	0.100	0.1121		mg/Kg	112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2288		mg/Kg	114	70 - 130	
o-Xylene	0.100	0.1128		mg/Kg	113	70 - 130	

Surrogate	LCSD	LCSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	111		70 - 130	02/13/24 16:42	02/14/24 13:14	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/13/24 16:42	02/14/24 13:14	1

Lab Sample ID: LCSD 880-73089/2-A

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73089

Analyte	Spike	LCSD	LCSD	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier					
Benzene	0.100	0.1031		mg/Kg	103	70 - 130	31	35
Toluene	0.100	0.1191		mg/Kg	119	70 - 130	10	35
Ethylbenzene	0.100	0.1132		mg/Kg	113	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2319		mg/Kg	116	70 - 130	1	35
o-Xylene	0.100	0.1146		mg/Kg	115	70 - 130	2	35

Surrogate	LCSD	LCSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	110		70 - 130	02/13/24 16:42	02/14/24 13:14	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: LCSD 880-73089/2-A

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73089

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-39266-7 MS

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: HA-8

Prep Type: Total/NA

Prep Batch: 73089

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00200	U	0.0996	0.09547		mg/Kg	95	70 - 130	
Toluene	<0.00200	U	0.0996	0.1101		mg/Kg	111	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.1032		mg/Kg	103	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2107		mg/Kg	105	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1052		mg/Kg	105	70 - 130	

Surrogate	MS	MS							
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	93		70 - 130						

Lab Sample ID: 880-39266-7 MSD

Matrix: Solid

Analysis Batch: 73139

Client Sample ID: HA-8

Prep Type: Total/NA

Prep Batch: 73089

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00200	U	0.0990	0.08771		mg/Kg	87	70 - 130		8	35
Toluene	<0.00200	U	0.0990	0.1102		mg/Kg	111	70 - 130		0	35
Ethylbenzene	<0.00200	U	0.0990	0.1078		mg/Kg	108	70 - 130		4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2246		mg/Kg	113	70 - 130		6	35
o-Xylene	<0.00200	U	0.0990	0.1119		mg/Kg	112	70 - 130		6	35

Surrogate	MSD	MSD							
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

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

Lab Sample ID: MB 880-72722/1-A

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72722

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/24 10:46	02/15/24 07:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/24 10:46	02/15/24 07:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/24 10:46	02/15/24 07:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	249	S1+	70 - 130			
o-Terphenyl	223	S1+	70 - 130			

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: LCS 880-72722/2-A

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	941.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.1		mg/Kg		97	70 - 130
Surrogate							
LCS %Recovery Qualifier Limits							
1-Chlorooctane	113		70 - 130				
o-Terphenyl	120		70 - 130				

Lab Sample ID: LCSD 880-72722/3-A

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.3		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	989.1		mg/Kg		99	70 - 130	2	20
Surrogate									
LCSD %Recovery Qualifier Limits									
1-Chlorooctane	110		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 880-39032-A-41-E MS

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 72722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1141		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1437	F1	mg/Kg		140	70 - 130
Surrogate									
MS %Recovery Qualifier Limits									
1-Chlorooctane	126		70 - 130						
o-Terphenyl	87		70 - 130						

Lab Sample ID: 880-39032-A-41-F MSD

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 72722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1070		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1391	F1	mg/Kg		136	70 - 130	3	20
Surrogate											
MSD %Recovery Qualifier Limits											
1-Chlorooctane	120		70 - 130								

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: 880-39032-A-41-F MSD

Matrix: Solid

Analysis Batch: 73204

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 72722

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
o-Terphenyl			85		70 - 130

Lab Sample ID: MB 880-73028/1-A

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73028

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U			50.0		mg/Kg		02/13/24 11:11	02/14/24 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U			50.0		mg/Kg		02/13/24 11:11	02/14/24 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U			50.0		mg/Kg		02/13/24 11:11	02/14/24 18:51	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	231	S1+			70 - 130				02/13/24 11:11	02/14/24 18:51	1
o-Terphenyl	210	S1+			70 - 130				02/13/24 11:11	02/14/24 18:51	1

Lab Sample ID: LCS 880-73028/2-A

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73028

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Added	Result	Qualifier			Limits	Limits
Gasoline Range Organics (GRO)-C6-C10		1000	962.5		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)		1000	943.2		mg/Kg		94	70 - 130
Surrogate		LCS	LCS	Unit	D	%Rec	RPD	Limit
1-Chlorooctane	105		70 - 130					
o-Terphenyl	101		70 - 130					

Lab Sample ID: LCSD 880-73028/3-A

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73028

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	%Rec
		Added	Result	Qualifier			Limits	Limits
Gasoline Range Organics (GRO)-C6-C10		1000	941.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)		1000	919.5		mg/Kg		92	70 - 130
Surrogate		LCSD	LCSD	Unit	D	%Rec	RPD	Limit
1-Chlorooctane	98		70 - 130				2	20
o-Terphenyl	101		70 - 130				3	20

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: 880-39266-1 MS									Client Sample ID: HA-5
Matrix: Solid									Prep Type: Total/NA
Analysis Batch: 73094									Prep Batch: 73028
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	919.9		mg/Kg	87	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1145		mg/Kg	112	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	83		70 - 130						

Lab Sample ID: 880-39266-1 MSD									Client Sample ID: HA-5
Matrix: Solid									Prep Type: Total/NA
Analysis Batch: 73094									Prep Batch: 73028
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	973.7		mg/Kg	93	70 - 130	6
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1190		mg/Kg	116	70 - 130	4
Surrogate	MSD %Recovery	MSD Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: MB 880-73085/1-A									Client Sample ID: Method Blank
Matrix: Solid									Prep Type: Total/NA
Analysis Batch: 73094									Prep Batch: 73085
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg	02/13/24 16:31	02/14/24 07:37		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg	02/13/24 16:31	02/14/24 07:37		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg	02/13/24 16:31	02/14/24 07:37		1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130				02/13/24 16:31	02/14/24 07:37	
o-Terphenyl	206	S1+	70 - 130				02/13/24 16:31	02/14/24 07:37	

Lab Sample ID: LCS 880-73085/2-A									Client Sample ID: Lab Control Sample
Matrix: Solid									Prep Type: Total/NA
Analysis Batch: 73094									Prep Batch: 73085
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1111		mg/Kg	111	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1018		mg/Kg	102	70 - 130			

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: LCS 880-73085/2-A

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73085

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
<i>o</i> -Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-73085/3-A

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73085

Analyte		Spike	LCSD	LCSD		%Rec	RPD
		Added	Result	Qualifier	Unit	D	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1089		mg/Kg	109	70 - 130
Diesel Range Organics (Over C10-C28)		1000	978.6		mg/Kg	98	70 - 130

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
<i>o</i> -Terphenyl	109		70 - 130

Lab Sample ID: 880-39266-27 MS

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: PS-9

Prep Type: Total/NA

Prep Batch: 73085

Analyte	Sample	Sample	Spike	MS	MS		%Rec
	Result	Qualifier	Added	Result	Qualifier	Unit	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	945.1		mg/Kg	90
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	1152		mg/Kg	112

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
<i>o</i> -Terphenyl	81		70 - 130

Lab Sample ID: 880-39266-27 MSD

Matrix: Solid

Analysis Batch: 73094

Client Sample ID: PS-9

Prep Type: Total/NA

Prep Batch: 73085

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec
	Result	Qualifier	Added	Result	Qualifier	Unit	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	1083		mg/Kg	104
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	1310		mg/Kg	128

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
<i>o</i> -Terphenyl	91		70 - 130

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-73393/1-A****Matrix: Solid****Analysis Batch: 73414****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 73393**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/24 14:56	02/18/24 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/24 14:56	02/18/24 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/24 14:56	02/18/24 19:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	02/16/24 14:56	02/18/24 19:15	1
o-Terphenyl	108		70 - 130	02/16/24 14:56	02/18/24 19:15	1

Lab Sample ID: LCS 880-73393/2-A**Matrix: Solid****Analysis Batch: 73414****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 73393**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Lim
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	989.9		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-73393/3-A**Matrix: Solid****Analysis Batch: 73414****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 73393**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1069		mg/Kg		107	70 - 130	2 / 20
Diesel Range Organics (Over C10-C28)	1000	960.5		mg/Kg		96	70 - 130	3 / 20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-39488-A-21-C MS**Matrix: Solid****Analysis Batch: 73414****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 73393**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Lim
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	1067		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	881.6		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

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

Lab Sample ID: 880-39488-A-21-C MS

Matrix: Solid

Analysis Batch: 73414

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73393

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-39488-A-21-D MSD

Matrix: Solid

Analysis Batch: 73414

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	1093		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	813.7		mg/Kg		78	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	70		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73009/1-A

Matrix: Solid

Analysis Batch: 73035

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00	mg/Kg			02/13/24 11:10	1

Lab Sample ID: LCS 880-73009/2-A

Matrix: Solid

Analysis Batch: 73035

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	RPD
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-73009/3-A

Matrix: Solid

Analysis Batch: 73035

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD
Chloride	250	248.4		mg/Kg		99	90 - 110

Lab Sample ID: 880-39266-21 MS

Matrix: Solid

Analysis Batch: 73035

Client Sample ID: PS-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD
Chloride	63.3		249	331.6		mg/Kg		108	90 - 110

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: 880-39266-21 MSD****Matrix: Solid****Analysis Batch: 73035**
**Client Sample ID: PS-3
 Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.3		249	331.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-73030/1-A**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: Method Blank
 Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/13/24 21:14	1

Lab Sample ID: LCS 880-73030/2-A**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: Lab Control Sample
 Prep Type: Soluble**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-73030/3-A**Matrix: Solid****Analysis Batch: 73081**
**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	244.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-39266-1 MS**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: HA-5
 Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	70.9		250	324.9		mg/Kg		102	90 - 110

Lab Sample ID: 880-39266-1 MSD**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: HA-5
 Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70.9		250	325.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-39266-11 MS**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: HA-1
 Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10600		5030	15730		mg/Kg		103	90 - 110

Lab Sample ID: 880-39266-11 MSD**Matrix: Solid****Analysis Batch: 73081**
**Client Sample ID: HA-1
 Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10600		5030	15750		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC VOA**Analysis Batch: 72999**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-27	PS-9	Total/NA	Solid	8021B	73002
880-39266-28	PS-10	Total/NA	Solid	8021B	73002
880-39266-29	PS-11	Total/NA	Solid	8021B	73002
880-39266-30	PS-12	Total/NA	Solid	8021B	73002
MB 880-73002/5-A	Method Blank	Total/NA	Solid	8021B	73002
LCS 880-73002/1-A	Lab Control Sample	Total/NA	Solid	8021B	73002
LCSD 880-73002/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73002
880-39094-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	73002
880-39094-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73002

Prep Batch: 73002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-27	PS-9	Total/NA	Solid	5035	10
880-39266-28	PS-10	Total/NA	Solid	5035	11
880-39266-29	PS-11	Total/NA	Solid	5035	12
880-39266-30	PS-12	Total/NA	Solid	5035	13
MB 880-73002/5-A	Method Blank	Total/NA	Solid	5035	14
LCS 880-73002/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73002/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39094-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-39094-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 73027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	5035	
880-39266-3	HA-6	Total/NA	Solid	5035	
880-39266-5	HA-7	Total/NA	Solid	5035	
880-39266-9	PS-1	Total/NA	Solid	5035	
880-39266-11	HA-1	Total/NA	Solid	5035	
880-39266-12	HA-1	Total/NA	Solid	5035	
880-39266-13	HA-1	Total/NA	Solid	5035	
880-39266-16	HA-2	Total/NA	Solid	5035	
880-39266-17	HA-3	Total/NA	Solid	5035	
880-39266-19	HA-4	Total/NA	Solid	5035	
880-39266-22	PS-4	Total/NA	Solid	5035	
880-39266-23	PS-5	Total/NA	Solid	5035	
880-39266-24	PS-6	Total/NA	Solid	5035	
880-39266-26	PS-8	Total/NA	Solid	5035	
MB 880-73027/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73027/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73027/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39266-1 MS	HA-5	Total/NA	Solid	5035	
880-39266-1 MSD	HA-5	Total/NA	Solid	5035	

Analysis Batch: 73041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	8021B	73027
880-39266-3	HA-6	Total/NA	Solid	8021B	73027
880-39266-5	HA-7	Total/NA	Solid	8021B	73027
880-39266-9	PS-1	Total/NA	Solid	8021B	73027
880-39266-11	HA-1	Total/NA	Solid	8021B	73027

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC VOA (Continued)**Analysis Batch: 73041 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-12	HA-1	Total/NA	Solid	8021B	73027
880-39266-13	HA-1	Total/NA	Solid	8021B	73027
880-39266-16	HA-2	Total/NA	Solid	8021B	73027
880-39266-17	HA-3	Total/NA	Solid	8021B	73027
880-39266-19	HA-4	Total/NA	Solid	8021B	73027
880-39266-22	PS-4	Total/NA	Solid	8021B	73027
880-39266-23	PS-5	Total/NA	Solid	8021B	73027
880-39266-24	PS-6	Total/NA	Solid	8021B	73027
880-39266-26	PS-8	Total/NA	Solid	8021B	73027
MB 880-73027/5-A	Method Blank	Total/NA	Solid	8021B	73027
LCS 880-73027/1-A	Lab Control Sample	Total/NA	Solid	8021B	73027
LCSD 880-73027/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73027
880-39266-1 MS	HA-5	Total/NA	Solid	8021B	73027
880-39266-1 MSD	HA-5	Total/NA	Solid	8021B	73027

Prep Batch: 73089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-7	HA-8	Total/NA	Solid	5035	
880-39266-10	PS-2	Total/NA	Solid	5035	
880-39266-11	HA-1	Total/NA	Solid	5035	
880-39266-14	HA-2	Total/NA	Solid	5035	
880-39266-15	HA-2	Total/NA	Solid	5035	
880-39266-21	PS-3	Total/NA	Solid	5035	
880-39266-25	PS-7	Total/NA	Solid	5035	
MB 880-73089/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73089/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73089/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39266-7 MS	HA-8	Total/NA	Solid	5035	
880-39266-7 MSD	HA-8	Total/NA	Solid	5035	

Analysis Batch: 73139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-7	HA-8	Total/NA	Solid	8021B	73089
880-39266-10	PS-2	Total/NA	Solid	8021B	73089
880-39266-11	HA-1	Total/NA	Solid	8021B	73089
880-39266-14	HA-2	Total/NA	Solid	8021B	73089
880-39266-15	HA-2	Total/NA	Solid	8021B	73089
880-39266-21	PS-3	Total/NA	Solid	8021B	73089
880-39266-25	PS-7	Total/NA	Solid	8021B	73089
MB 880-73089/5-A	Method Blank	Total/NA	Solid	8021B	73089
LCS 880-73089/1-A	Lab Control Sample	Total/NA	Solid	8021B	73089
LCSD 880-73089/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73089
880-39266-7 MS	HA-8	Total/NA	Solid	8021B	73089
880-39266-7 MSD	HA-8	Total/NA	Solid	8021B	73089

Analysis Batch: 73161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	Total BTEX	
880-39266-3	HA-6	Total/NA	Solid	Total BTEX	
880-39266-5	HA-7	Total/NA	Solid	Total BTEX	
880-39266-7	HA-8	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC VOA (Continued)**Analysis Batch: 73161 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-9	PS-1	Total/NA	Solid	Total BTEX	
880-39266-10	PS-2	Total/NA	Solid	Total BTEX	
880-39266-11	HA-1	Total/NA	Solid	Total BTEX	
880-39266-12	HA-1	Total/NA	Solid	Total BTEX	
880-39266-13	HA-1	Total/NA	Solid	Total BTEX	
880-39266-14	HA-2	Total/NA	Solid	Total BTEX	
880-39266-15	HA-2	Total/NA	Solid	Total BTEX	
880-39266-16	HA-2	Total/NA	Solid	Total BTEX	
880-39266-17	HA-3	Total/NA	Solid	Total BTEX	
880-39266-19	HA-4	Total/NA	Solid	Total BTEX	
880-39266-21	PS-3	Total/NA	Solid	Total BTEX	
880-39266-22	PS-4	Total/NA	Solid	Total BTEX	
880-39266-23	PS-5	Total/NA	Solid	Total BTEX	
880-39266-24	PS-6	Total/NA	Solid	Total BTEX	
880-39266-25	PS-7	Total/NA	Solid	Total BTEX	
880-39266-26	PS-8	Total/NA	Solid	Total BTEX	
880-39266-27	PS-9	Total/NA	Solid	Total BTEX	
880-39266-28	PS-10	Total/NA	Solid	Total BTEX	
880-39266-29	PS-11	Total/NA	Solid	Total BTEX	
880-39266-30	PS-12	Total/NA	Solid	Total BTEX	

GC Semi VOA**Prep Batch: 72722**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-29	PS-11	Total/NA	Solid	8015NM Prep	
880-39266-30	PS-12	Total/NA	Solid	8015NM Prep	
MB 880-72722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39032-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-39032-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 73028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	8015NM Prep	
880-39266-3	HA-6	Total/NA	Solid	8015NM Prep	
880-39266-5	HA-7	Total/NA	Solid	8015NM Prep	
880-39266-7	HA-8	Total/NA	Solid	8015NM Prep	
880-39266-9	PS-1	Total/NA	Solid	8015NM Prep	
880-39266-10	PS-2	Total/NA	Solid	8015NM Prep	
880-39266-11	HA-1	Total/NA	Solid	8015NM Prep	
880-39266-12	HA-1	Total/NA	Solid	8015NM Prep	
880-39266-13	HA-1	Total/NA	Solid	8015NM Prep	
880-39266-14	HA-2	Total/NA	Solid	8015NM Prep	
880-39266-15	HA-2	Total/NA	Solid	8015NM Prep	
880-39266-16	HA-2	Total/NA	Solid	8015NM Prep	
880-39266-17	HA-3	Total/NA	Solid	8015NM Prep	
880-39266-19	HA-4	Total/NA	Solid	8015NM Prep	
880-39266-21	PS-3	Total/NA	Solid	8015NM Prep	
880-39266-22	PS-4	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC Semi VOA (Continued)**Prep Batch: 73028 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-23	PS-5	Total/NA	Solid	8015NM Prep	
880-39266-24	PS-6	Total/NA	Solid	8015NM Prep	
880-39266-25	PS-7	Total/NA	Solid	8015NM Prep	
880-39266-26	PS-8	Total/NA	Solid	8015NM Prep	
MB 880-73028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39266-1 MS	HA-5	Total/NA	Solid	8015NM Prep	
880-39266-1 MSD	HA-5	Total/NA	Solid	8015NM Prep	

Prep Batch: 73085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-27	PS-9	Total/NA	Solid	8015NM Prep	
880-39266-28	PS-10	Total/NA	Solid	8015NM Prep	
MB 880-73085/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73085/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39266-27 MS	PS-9	Total/NA	Solid	8015NM Prep	
880-39266-27 MSD	PS-9	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	8015B NM	73028
880-39266-3	HA-6	Total/NA	Solid	8015B NM	73028
880-39266-5	HA-7	Total/NA	Solid	8015B NM	73028
880-39266-7	HA-8	Total/NA	Solid	8015B NM	73028
880-39266-9	PS-1	Total/NA	Solid	8015B NM	73028
880-39266-10	PS-2	Total/NA	Solid	8015B NM	73028
880-39266-11	HA-1	Total/NA	Solid	8015B NM	73028
880-39266-12	HA-1	Total/NA	Solid	8015B NM	73028
880-39266-13	HA-1	Total/NA	Solid	8015B NM	73028
880-39266-14	HA-2	Total/NA	Solid	8015B NM	73028
880-39266-15	HA-2	Total/NA	Solid	8015B NM	73028
880-39266-16	HA-2	Total/NA	Solid	8015B NM	73028
880-39266-17	HA-3	Total/NA	Solid	8015B NM	73028
880-39266-19	HA-4	Total/NA	Solid	8015B NM	73028
880-39266-21	PS-3	Total/NA	Solid	8015B NM	73028
880-39266-22	PS-4	Total/NA	Solid	8015B NM	73028
880-39266-23	PS-5	Total/NA	Solid	8015B NM	73028
880-39266-24	PS-6	Total/NA	Solid	8015B NM	73028
880-39266-25	PS-7	Total/NA	Solid	8015B NM	73028
880-39266-26	PS-8	Total/NA	Solid	8015B NM	73028
880-39266-27	PS-9	Total/NA	Solid	8015B NM	73085
880-39266-28	PS-10	Total/NA	Solid	8015B NM	73085
MB 880-73028/1-A	Method Blank	Total/NA	Solid	8015B NM	73028
MB 880-73085/1-A	Method Blank	Total/NA	Solid	8015B NM	73085
LCS 880-73028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73028
LCS 880-73085/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73085
LCSD 880-73028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73028
LCSD 880-73085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73085
880-39266-1 MS	HA-5	Total/NA	Solid	8015B NM	73028

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC Semi VOA (Continued)**Analysis Batch: 73094 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1 MSD	HA-5	Total/NA	Solid	8015B NM	73028
880-39266-27 MS	PS-9	Total/NA	Solid	8015B NM	73085
880-39266-27 MSD	PS-9	Total/NA	Solid	8015B NM	73085

Analysis Batch: 73204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-29	PS-11	Total/NA	Solid	8015B NM	72722
880-39266-30	PS-12	Total/NA	Solid	8015B NM	72722
MB 880-72722/1-A	Method Blank	Total/NA	Solid	8015B NM	72722
LCS 880-72722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72722
LCSD 880-72722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72722
880-39032-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	72722
880-39032-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	72722

Analysis Batch: 73223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Total/NA	Solid	8015 NM	12
880-39266-3	HA-6	Total/NA	Solid	8015 NM	13
880-39266-5	HA-7	Total/NA	Solid	8015 NM	14
880-39266-6	HA-7	Total/NA	Solid	8015 NM	
880-39266-7	HA-8	Total/NA	Solid	8015 NM	
880-39266-9	PS-1	Total/NA	Solid	8015 NM	
880-39266-10	PS-2	Total/NA	Solid	8015 NM	
880-39266-11	HA-1	Total/NA	Solid	8015 NM	
880-39266-12	HA-1	Total/NA	Solid	8015 NM	
880-39266-13	HA-1	Total/NA	Solid	8015 NM	
880-39266-14	HA-2	Total/NA	Solid	8015 NM	
880-39266-15	HA-2	Total/NA	Solid	8015 NM	
880-39266-16	HA-2	Total/NA	Solid	8015 NM	
880-39266-17	HA-3	Total/NA	Solid	8015 NM	
880-39266-19	HA-4	Total/NA	Solid	8015 NM	
880-39266-21	PS-3	Total/NA	Solid	8015 NM	
880-39266-22	PS-4	Total/NA	Solid	8015 NM	
880-39266-23	PS-5	Total/NA	Solid	8015 NM	
880-39266-24	PS-6	Total/NA	Solid	8015 NM	
880-39266-25	PS-7	Total/NA	Solid	8015 NM	
880-39266-26	PS-8	Total/NA	Solid	8015 NM	
880-39266-27	PS-9	Total/NA	Solid	8015 NM	
880-39266-28	PS-10	Total/NA	Solid	8015 NM	
880-39266-29	PS-11	Total/NA	Solid	8015 NM	
880-39266-30	PS-12	Total/NA	Solid	8015 NM	

Prep Batch: 73393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-6	HA-7	Total/NA	Solid	8015NM Prep	
MB 880-73393/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73393/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73393/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-39488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

GC Semi VOA**Analysis Batch: 73414**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-6	HA-7	Total/NA	Solid	8015B NM	73393
MB 880-73393/1-A	Method Blank	Total/NA	Solid	8015B NM	73393
LCS 880-73393/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73393
LCSD 880-73393/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73393
880-39488-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	73393
880-39488-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	73393

HPLC/IC**Leach Batch: 73009**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-21	PS-3	Soluble	Solid	DI Leach	10
880-39266-22	PS-4	Soluble	Solid	DI Leach	11
880-39266-23	PS-5	Soluble	Solid	DI Leach	12
880-39266-24	PS-6	Soluble	Solid	DI Leach	13
880-39266-25	PS-7	Soluble	Solid	DI Leach	14
880-39266-26	PS-8	Soluble	Solid	DI Leach	
880-39266-27	PS-9	Soluble	Solid	DI Leach	
880-39266-28	PS-10	Soluble	Solid	DI Leach	
880-39266-29	PS-11	Soluble	Solid	DI Leach	
880-39266-30	PS-12	Soluble	Solid	DI Leach	
MB 880-73009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39266-21 MS	PS-3	Soluble	Solid	DI Leach	
880-39266-21 MSD	PS-3	Soluble	Solid	DI Leach	

Leach Batch: 73030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Soluble	Solid	DI Leach	
880-39266-2	HA-5	Soluble	Solid	DI Leach	
880-39266-3	HA-6	Soluble	Solid	DI Leach	
880-39266-4	HA-6	Soluble	Solid	DI Leach	
880-39266-5	HA-7	Soluble	Solid	DI Leach	
880-39266-6	HA-7	Soluble	Solid	DI Leach	
880-39266-7	HA-8	Soluble	Solid	DI Leach	
880-39266-8	HA-8	Soluble	Solid	DI Leach	
880-39266-9	PS-1	Soluble	Solid	DI Leach	
880-39266-10	PS-2	Soluble	Solid	DI Leach	
880-39266-11	HA-1	Soluble	Solid	DI Leach	
880-39266-12	HA-1	Soluble	Solid	DI Leach	
880-39266-13	HA-1	Soluble	Solid	DI Leach	
880-39266-14	HA-2	Soluble	Solid	DI Leach	
880-39266-15	HA-2	Soluble	Solid	DI Leach	
880-39266-16	HA-2	Soluble	Solid	DI Leach	
880-39266-17	HA-3	Soluble	Solid	DI Leach	
880-39266-18	HA-3	Soluble	Solid	DI Leach	
880-39266-19	HA-4	Soluble	Solid	DI Leach	
880-39266-20	HA-4	Soluble	Solid	DI Leach	
MB 880-73030/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73030/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

HPLC/IC (Continued)**Leach Batch: 73030 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-73030/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39266-1 MS	HA-5	Soluble	Solid	DI Leach	
880-39266-1 MSD	HA-5	Soluble	Solid	DI Leach	
880-39266-11 MS	HA-1	Soluble	Solid	DI Leach	
880-39266-11 MSD	HA-1	Soluble	Solid	DI Leach	

Analysis Batch: 73035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-21	PS-3	Soluble	Solid	300.0	73009
880-39266-22	PS-4	Soluble	Solid	300.0	73009
880-39266-23	PS-5	Soluble	Solid	300.0	73009
880-39266-24	PS-6	Soluble	Solid	300.0	73009
880-39266-25	PS-7	Soluble	Solid	300.0	73009
880-39266-26	PS-8	Soluble	Solid	300.0	73009
880-39266-27	PS-9	Soluble	Solid	300.0	73009
880-39266-28	PS-10	Soluble	Solid	300.0	73009
880-39266-29	PS-11	Soluble	Solid	300.0	73009
880-39266-30	PS-12	Soluble	Solid	300.0	73009
MB 880-73009/1-A	Method Blank	Soluble	Solid	300.0	73009
LCS 880-73009/2-A	Lab Control Sample	Soluble	Solid	300.0	73009
LCSD 880-73009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73009
880-39266-21 MS	PS-3	Soluble	Solid	300.0	73009
880-39266-21 MSD	PS-3	Soluble	Solid	300.0	73009

Analysis Batch: 73081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-1	HA-5	Soluble	Solid	300.0	73030
880-39266-2	HA-5	Soluble	Solid	300.0	73030
880-39266-3	HA-6	Soluble	Solid	300.0	73030
880-39266-4	HA-6	Soluble	Solid	300.0	73030
880-39266-5	HA-7	Soluble	Solid	300.0	73030
880-39266-6	HA-7	Soluble	Solid	300.0	73030
880-39266-7	HA-8	Soluble	Solid	300.0	73030
880-39266-8	HA-8	Soluble	Solid	300.0	73030
880-39266-9	PS-1	Soluble	Solid	300.0	73030
880-39266-10	PS-2	Soluble	Solid	300.0	73030
880-39266-11	HA-1	Soluble	Solid	300.0	73030
880-39266-12	HA-1	Soluble	Solid	300.0	73030
880-39266-13	HA-1	Soluble	Solid	300.0	73030
880-39266-14	HA-2	Soluble	Solid	300.0	73030
880-39266-15	HA-2	Soluble	Solid	300.0	73030
880-39266-16	HA-2	Soluble	Solid	300.0	73030
880-39266-17	HA-3	Soluble	Solid	300.0	73030
880-39266-18	HA-3	Soluble	Solid	300.0	73030
880-39266-19	HA-4	Soluble	Solid	300.0	73030
880-39266-20	HA-4	Soluble	Solid	300.0	73030
MB 880-73030/1-A	Method Blank	Soluble	Solid	300.0	73030
LCS 880-73030/2-A	Lab Control Sample	Soluble	Solid	300.0	73030
LCSD 880-73030/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73030
880-39266-1 MS	HA-5	Soluble	Solid	300.0	73030
880-39266-1 MSD	HA-5	Soluble	Solid	300.0	73030

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

HPLC/IC (Continued)**Analysis Batch: 73081 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39266-11 MS	HA-1	Soluble	Solid	300.0	73030
880-39266-11 MSD	HA-1	Soluble	Solid	300.0	73030

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-5

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 19:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 19:55	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 21:28	CH	EET MID

Client Sample ID: HA-5

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 21:42	CH	EET MID

Client Sample ID: HA-6

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 16:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 20:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 21:47	CH	EET MID

Client Sample ID: HA-6

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 21:51	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-7

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	73041	02/13/24 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	73094	02/15/24 02:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		10			73081	02/13/24 21:56	CH	EET MID

Client Sample ID: HA-7

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73223	02/19/24 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73393	02/16/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73414	02/19/24 03:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:10	CH	EET MID

Client Sample ID: HA-8

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73139	02/14/24 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 13:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 21:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 21:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:14	CH	EET MID

Client Sample ID: HA-8

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:19	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-1

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 21:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 21:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:24	CH	EET MID

Client Sample ID: PS-2

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73139	02/14/24 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 22:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 22:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:28	CH	EET MID

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	73139	02/14/24 16:40	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	73041	02/13/24 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 16:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 02:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	73094	02/15/24 02:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		20			73081	02/13/24 22:33	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	73041	02/13/24 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 19:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		5			73081	02/13/24 22:47	CH	EET MID

Client Sample ID: HA-1

Date Collected: 02/09/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 22:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 22:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 22:51	CH	EET MID

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73089	02/14/24 14:00	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	73139	02/14/24 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 22:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:05	CH	EET MID

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73139	02/14/24 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 14:37	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73223	02/14/24 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 23:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:10	CH	EET MID

Client Sample ID: HA-2

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 21:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 21:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 23:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 23:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:14	CH	EET MID

Client Sample ID: HA-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 22:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 02:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:19	CH	EET MID

Client Sample ID: HA-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:24	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: HA-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 22:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 22:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 23:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:28	CH	EET MID

Client Sample ID: HA-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	73030	02/13/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1			73081	02/13/24 23:33	CH	EET MID

Client Sample ID: PS-3

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73139	02/14/24 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 14:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 13:05	CH	EET MID

Client Sample ID: PS-4

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/13/24 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 23:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 00:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 00:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 13:25	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-5

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/14/24 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 00:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 01:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 01:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 13:32	CH	EET MID

Client Sample ID: PS-6

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/14/24 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 00:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 01:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 01:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 13:52	CH	EET MID

Client Sample ID: PS-7

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73089	02/13/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73139	02/14/24 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 01:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 01:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 13:59	CH	EET MID

Client Sample ID: PS-8

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73027	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73041	02/14/24 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/14/24 01:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-8

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73223	02/15/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	73028	02/13/24 11:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/15/24 03:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 14:06	CH	EET MID

Client Sample ID: PS-9

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73002	02/13/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72999	02/13/24 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 18:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 10:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73085	02/13/24 16:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 10:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 14:13	CH	EET MID

Client Sample ID: PS-10

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73002	02/13/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72999	02/13/24 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 18:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/14/24 11:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	73085	02/13/24 16:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73094	02/14/24 11:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 14:19	CH	EET MID

Client Sample ID: PS-11

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73002	02/13/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72999	02/13/24 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 18:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 16:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72722	02/15/24 09:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 16:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Client Sample ID: PS-11

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-29

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			5.00 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 14:26	CH	EET MID

Client Sample ID: PS-12

Date Collected: 02/12/24 00:00

Date Received: 02/13/24 09:59

Lab Sample ID: 880-39266-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73002	02/13/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72999	02/13/24 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73161	02/13/24 19:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			73223	02/15/24 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	72722	02/15/24 09:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 17:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73009	02/13/24 10:30	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 14:33	CH	EET MID

Laboratory References:

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

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

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Eurofins Midland

Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-39266-1
 SDG: New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
880-39266-1	HA-5	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	1
880-39266-2	HA-5	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	2
880-39266-3	HA-6	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	3
880-39266-4	HA-6	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	4
880-39266-5	HA-7	Solid	02/09/24 00:00	02/13/24 09:59	0-0.5	5
880-39266-6	HA-7	Solid	02/09/24 00:00	02/13/24 09:59	0.5-1	6
880-39266-7	HA-8	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	7
880-39266-8	HA-8	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	8
880-39266-9	PS-1	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	9
880-39266-10	PS-2	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	10
880-39266-11	HA-1	Solid	02/09/24 00:00	02/13/24 09:59	0-0.5	11
880-39266-12	HA-1	Solid	02/09/24 00:00	02/13/24 09:59	0.5-1	12
880-39266-13	HA-1	Solid	02/09/24 00:00	02/13/24 09:59	1.5-2	13
880-39266-14	HA-2	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	14
880-39266-15	HA-2	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	
880-39266-16	HA-2	Solid	02/12/24 00:00	02/13/24 09:59	1.5-2	
880-39266-17	HA-3	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-18	HA-3	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	
880-39266-19	HA-4	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-20	HA-4	Solid	02/12/24 00:00	02/13/24 09:59	0.5-1	
880-39266-21	PS-3	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-22	PS-4	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-23	PS-5	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-24	PS-6	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-25	PS-7	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-26	PS-8	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-27	PS-9	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-28	PS-10	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-29	PS-11	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	
880-39266-30	PS-12	Solid	02/12/24 00:00	02/13/24 09:59	0-0.5	

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

Environmental Testing

XENCO

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



www.xenco.com

Page _____ of _____

880-39266 Chain of Custody

Project Manager:	Kyle Kincaid	Billed (if different):	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State ZIP:	Odessa, Texas, 79765	City, State ZIP:	
Phone:	432-894-6385	Email:	kcalson@earthsys.net

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Cheddar RP		Turn Around								None	NO
Project Number:	2023		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 hour						DI Water	H ₂ O
Project Location:	New Mexico		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Due Date:						Cool	Cool
Sampler's Name:	Kyle Kincaid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TAT starts the day received by the lab, if received by 4:30pm						HCl	HC
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature ID:						H ₂ SO ₄	H ₂
Samples Received intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>	Correction Factor:	-1.0	Temperature Reading:						H ₃ PO ₄	HP
Cooler/Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>	Corrected Temperature:	1.0							NaHSO ₄	NABIS
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>									Na ₂ S ₂ O ₃	NaSO ₃
Total Containers:											Zn Acetate+NaOH	Zn
											NaOH+Ascorbic Acid	SA/PC
Sample Identification	Matrix	Date	Time	Depth	Grab#	# of Comp	Chlorides	TPH	BTEX	Sample Comments		
HA-5	S	2/12/2024		0-05	G	1	X	X	X			
HA-5	S	2/12/2024		0.5-1	G	1	X					
HA-6	S	2/12/2024		0-05	G	1	X	X	X			
HA-6	S	2/12/2024		0.5-1	G	1	X					
HA-7	S	2/9/2024		0-05	G	1	X	X	X			
HA-7	S	2/9/2024		0.5-1	G	1	X					
HA-8	S	2/12/2024		0-05	G	1	X	X	X			
HA-8	S	2/12/2024		0.5-1	G	1	X					
PS-1	S	2/12/2024		0-05	G	1	X	X	X			
PS-2	S	2/12/2024		0-05	G	1	X	X	X			

Total 200.7 / 6010 200.8 / 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 / 2451 / 7470 / 7471

Notice: 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
1 <i>Mylee Kincaid</i>		2/12/2024			
3 <i>Jordan</i>		01-Sept-2024			
5 <i> </i>		6			

1
2
3
4
5
6
7
8
9
10
11
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) 585-5443 Lubbock, TX (806) 794-1796
 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 39266

www.xenco.com Page 3 of 3

Project Manager:	Kyle Kincaid	Billed to: (if different)	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State ZIP:	Odessa, Texas, 79765	City, State ZIP:	
Phone:	432-894-6385	Email:	tcarlson@earthsrs.net

ANALYSIS REQUEST										Preservative Codes	
Program: UST/PST	PRP	Brownfields	RRC	Superfund	None	NO	DI Water	H ₂ O			
<input type="checkbox"/>	Cool	Cool	MeOH	Me							
<input type="checkbox"/>	HCL	HC	HNO ₃	HN							
<input type="checkbox"/>	H ₂ SO ₄	H ₂	NaOH	Na							
<input type="checkbox"/>	H ₃ PO ₄	HP	NaHSO ₄	NABIS							
<input type="checkbox"/>	Na ₂ S ₂ O ₃	NaSO ₃	Zn Acetate+NaOH	Zn							
<input type="checkbox"/>	NaOH+Ascorbic Acid	SAPC									

Sample Comments									
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	Chlorides	TPH	BTEX

SAMPLE RECEIPT	Temp Blank:	Y/N	Wet Ice:	Yes No	Parameters				
					(Yes) N/A	Thermometer ID:	(Yes) N/A	Correction Factor:	Temperature Reading:
Total Containers:					Corrected Temperature	1.0			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	Chlorides	TPH	BTEX
HA-1	S	2/9/2024		0 - 0.5	G	1	X	X	X
HA-1	S	2/9/2024		0.5 - 1	G	1	X	X	X
HA-1	S	2/9/2024		1.5 - 2	G	1	X	X	X
HA-2	S	2/12/2024		0 - 0.5	G	1	X	X	X
HA-2	S	2/12/2024		0.5 - 1	G	1	X	X	X
HA-2	S	2/12/2024		1.5 - 2	G	1	X	X	X
HA-3	S	2/12/2024		0 - 0.5	G	1	X	X	X
HA-3	S	2/12/2024		0.5 - 1	G	1	X	X	X
HA-4	S	2/12/2024		0 - 0.5	G	1	X	X	X
HA-4	S	2/12/2024		0.5 - 1	G	1	X	X	X

Total 200.7 / 6010 200.8 / 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 / 2451 / 7470 / 7471

Notice: 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
1	J. CARLSON	2/13			
3					
4					
5					

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

Loc: 880
39266

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
 Midland TX (432) 704-5440 San Antonio TX (210) 505-3334
 El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 2

www.xenco.com

Page 3 of 3

Project Manager:	Kyle Kincaid	Billed to: (if different)	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State ZIP:	Odessa, Texas, 79765	City, State ZIP:	
Phone:	432-894-6385	Email:	kkincaid@earthsrs.net

Project Name:	Cheddar RP	Turn Around:	24 hour
Project Number:	2023	Due Date:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Project Location:	New Mexico	PMI Code:	
Sampler's Name:	Kyle Kincaid	TAT starts the day received by the lab, if received by 4:30pm	
PO#:		Parameters	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Vat Loss:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Thermometer ID:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Sample Custody Seals:		Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.5

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/JUST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>

Sample Identification	Matrix	Date	Time	Depth	Grav/ Comp	# of Cont	ANALYSIS REQUEST		Preservative Codes
							Chlorides	TPH	
PS-3	S	2/12/2024		0-05	G	1	X	X	None NO
PS-4	S	2/12/2024		0-05	G	1	X	X	Cool Cool
PS-5	S	2/12/2024		0-05	G	1	X	X	HCL HC
PS-6	S	2/12/2024		0-05	G	1	X	X	H ₂ SO ₄ , H ₂
PS-7	S	2/12/2024		0-05	G	1	X	X	H ₃ PO ₄ , HP
PS-8	S	2/12/2024		0-05	G	1	X	X	NaHSO ₄ , NaBIS
PS-9	S	2/12/2024		0-05	G	1	X	X	Na ₂ S ₂ O ₃ , NaSO ₃
PS-10	S	2/12/2024		0-05	G	1	X	X	Zn Acetate+NaOH Zn
PS-11	S	2/12/2024		0-05	G	1	X	X	NaOH+Ascorbic Acid SA/PC
PS-12	S	2/12/2024		0-05	G	1	X	X	

Total 200.7 / 6010 200.8 / 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 / 2451 / 7450 / 7471

Notice: 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
<u>Kyle Kincaid</u>		2/13			
<u>Jason</u>					
<u>John</u>					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-39266-1

SDG Number: New Mexico

Login Number: 39266**List Source: Eurofins Midland****List Number: 1****Creator: Wheeler, Jazmine**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mason Jones
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 3/8/2024 1:48:40 PM

JOB DESCRIPTION

Cheddar RP
Lea Co.

JOB NUMBER

880-40156-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

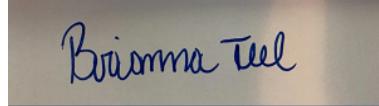
Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/8/2024 1:48:40 PM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Laboratory Job ID: 880-40156-1
SDG: Lea Co.

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	8
Surrogate Summary	29
QC Sample Results	31
QC Association Summary	41
Lab Chronicle	48
Certification Summary	56
Method Summary	57
Sample Summary	58
Chain of Custody	59
Receipt Checklists	62

Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-40156-1
SDG: Lea Co.

Glossary (Continued)

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Midland

Case Narrative

Client: Earth Systems Response and Restoration
Project: Cheddar RP

Job ID: 880-40156-1

Job ID: 880-40156-1

Eurofins Midland

Job Narrative 880-40156-1

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

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

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

Receipt

The samples were received on 2/29/2024 4:40 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 23.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 0.5-1 (880-40156-1), CS-2 0.5-1 (880-40156-2), CS-3 0.5-1 (880-40156-3), CS-4 0.5-1 (880-40156-4), CS-5 0.5-1 (880-40156-5), CS-6 0.5-1 (880-40156-6), CS-7 0.5-1 (880-40156-7), CS-8 0.5-1 (880-40156-8), CS-9 0.5-1 (880-40156-9), CS-10 0.5-1 (880-40156-10), CS-11 0.5-1 (880-40156-11), CS-12 0.5-1 (880-40156-12), CS-13 0.5-1 (880-40156-13), CS-14 0.5-1 (880-40156-14), CS-15 0.5-1 (880-40156-15), CS-16 0.5-1 (880-40156-16), CS-17 0.5-1 (880-40156-17), CS-18 0.5-1 (880-40156-18), CS-19 0.5-1 (880-40156-19), CS-20 0.5-1 (880-40156-20), CS-21 0.5-1 (880-40156-21), CS-22 0.5-1 (880-40156-22), CS-23 0.5-1 (880-40156-23), CS-24 0.5-1 (880-40156-24) and CS-25 0.5-1 (880-40156-25).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74453 recovered under the lower control limit for Benzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch and the data has been qualified and reported.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-74466 and analytical batch 880-74453. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74521 and analytical batch 880-74546 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-14 0.5-1 (880-40156-14), CS-16 0.5-1 (880-40156-16) and CS-18 0.5-1 (880-40156-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-74521 and analytical batch 880-74546 contained Benzene 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 8021B: Surrogate recovery for the following sample was outside control limits: CS-23 0.5-1 (880-40156-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-74451 and 880-74466 and analytical batch 880-74453 contained Benzene 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.

Eurofins Midland

Case Narrative

Client: Earth Systems Response and Restoration
 Project: Cheddar RP

Job ID: 880-40156-1

Job ID: 880-40156-1 (Continued)

Eurofins Midland

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-74465/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74374 and analytical batch 880-74456 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-40156-A-1-D MS) and (880-40156-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-2 0.5-1 (880-40156-2), CS-3 0.5-1 (880-40156-3) and CS-4 0.5-1 (880-40156-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-8 0.5-1 (880-40156-8), CS-9 0.5-1 (880-40156-9) and CS-10 0.5-1 (880-40156-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74465 and 880-74465 and analytical batch 880-74456 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74494 and analytical batch 880-74445 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74494/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-74494 and analytical batch 880-74445 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74445 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74445/47).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74493 and analytical batch 880-74447 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-17 0.5-1 (880-40156-17) and CS-18 0.5-1 (880-40156-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74493 and analytical batch 880-74447 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-1 0.5-1**Lab Sample ID: 880-40156-1**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		03/01/24 11:20	03/02/24 03:15	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		130		70 - 130			03/01/24 11:20	03/02/24 03:15	1
1,4-Difluorobenzene (Surr)		90		70 - 130			03/01/24 11:20	03/02/24 03:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/02/24 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/01/24 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/01/24 20:22	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		03/01/24 13:59	03/01/24 20:22	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/01/24 20:22	1
Surrogate									
1-Chlorooctane	100		70 - 130				03/01/24 13:59	03/01/24 20:22	1
<i>o</i> -Terphenyl	111		70 - 130				03/01/24 13:59	03/01/24 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		4.99		mg/Kg			03/01/24 18:42	1

Client Sample ID: CS-2 0.5-1**Lab Sample ID: 880-40156-2**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/01/24 11:20	03/02/24 03:42	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		136	S1+	70 - 130			03/01/24 11:20	03/02/24 03:42	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-2 0.5-1
 Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-2
 Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	03/01/24 11:20	03/02/24 03:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/02/24 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/01/24 21:27	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	<49.7	U	49.7		mg/Kg		03/01/24 13:59	03/01/24 21:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		03/01/24 13:59	03/01/24 21:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/01/24 13:59	03/01/24 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/01/24 13:59	03/01/24 21:27	1
o-Terphenyl	123		70 - 130	03/01/24 13:59	03/01/24 21:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195		4.98		mg/Kg			03/01/24 18:58	1

Client Sample ID: CS-3 0.5-1**Lab Sample ID: 880-40156-3**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/01/24 11:20	03/02/24 04:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/01/24 11:20	03/02/24 04:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/01/24 11:20	03/02/24 04:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/01/24 11:20	03/02/24 04:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/01/24 11:20	03/02/24 04:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/01/24 11:20	03/02/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	03/01/24 11:20	03/02/24 04:09	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130	03/01/24 11:20	03/02/24 04:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/02/24 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/01/24 21:48	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-3 0.5-1**Lab Sample ID: 880-40156-3**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/01/24 21:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/01/24 13:59	03/01/24 21:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/01/24 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/01/24 13:59	03/01/24 21:48	1
o-Terphenyl	109		70 - 130				03/01/24 13:59	03/01/24 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		4.99		mg/Kg			03/01/24 19:04	1

Client Sample ID: CS-4 0.5-1**Lab Sample ID: 880-40156-4**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/01/24 11:20	03/02/24 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/01/24 11:20	03/02/24 04:35	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130				03/01/24 11:20	03/02/24 04:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/02/24 04:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	840		49.8		mg/Kg			03/01/24 22:09	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	<49.8	U	49.8		mg/Kg		03/01/24 13:59	03/01/24 22:09	1
Diesel Range Organics (Over C10-C28)	790	*+	49.8		mg/Kg		03/01/24 13:59	03/01/24 22:09	1
OII Range Organics (Over C28-C36)	49.8		49.8		mg/Kg		03/01/24 13:59	03/01/24 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/01/24 13:59	03/01/24 22:09	1
o-Terphenyl	110		70 - 130				03/01/24 13:59	03/01/24 22:09	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-4 0.5-1**Lab Sample ID: 880-40156-4**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.04		mg/Kg			03/01/24 19:09	1

Client Sample ID: CS-5 0.5-1**Lab Sample ID: 880-40156-5**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/01/24 11:20	03/02/24 05:00	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/01/24 11:20	03/02/24 05:00	1
1,4-Difluorobenzene (Surr)	87		70 - 130				03/01/24 11:20	03/02/24 05:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/02/24 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		49.6		mg/Kg			03/01/24 22:31	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	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/01/24 22:31	1
Diesel Range Organics (Over C10-C28)	62.8	*+	49.6		mg/Kg		03/01/24 13:59	03/01/24 22:31	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/01/24 22:31	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/01/24 13:59	03/01/24 22:31	1
<i>o-Terphenyl</i>	100		70 - 130				03/01/24 13:59	03/01/24 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	616		5.02		mg/Kg			03/01/24 19:15	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-6 0.5-1
 Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-6
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/01/24 11:20	03/02/24 05:26	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		88		70 - 130			03/01/24 11:20	03/02/24 05:26	1
1,4-Difluorobenzene (Surr)		110		70 - 130			03/01/24 11:20	03/02/24 05:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/02/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.4		50.4		mg/Kg			03/01/24 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/01/24 13:59	03/01/24 22:52	1
Diesel Range Organics (Over C10-C28)	80.4 *+		50.4		mg/Kg		03/01/24 13:59	03/01/24 22:52	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/01/24 13:59	03/01/24 22:52	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		91	70 - 130				03/01/24 13:59	03/01/24 22:52	1
<i>o-Terphenyl</i>		99	70 - 130				03/01/24 13:59	03/01/24 22:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	433		5.02		mg/Kg			03/01/24 19:31	1

Client Sample ID: CS-7 0.5-1
 Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-7
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/01/24 11:20	03/02/24 05:51	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		78		70 - 130			03/01/24 11:20	03/02/24 05:51	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-7 0.5-1
 Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-7
 Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130	03/01/24 11:20	03/02/24 05:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/02/24 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	809		50.5		mg/Kg			03/01/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/01/24 23:14	1

Diesel Range Organics (Over C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/01/24 23:14	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/01/24 13:59	03/01/24 23:14	1
o-Terphenyl	100		70 - 130	03/01/24 13:59	03/01/24 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1780		25.1		mg/Kg			03/01/24 19:37	5

Client Sample ID: CS-8 0.5-1

Lab Sample ID: 880-40156-8

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 06:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 06:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 06:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/01/24 11:20	03/02/24 06:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/01/24 11:20	03/02/24 06:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/01/24 11:20	03/02/24 06:16	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	03/01/24 11:20	03/02/24 06:16	1
1,4-Difluorobenzene (Surr)	209	S1+	70 - 130	03/01/24 11:20	03/02/24 06:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/02/24 06:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	200		50.3		mg/Kg			03/01/24 23:35	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-8 0.5-1**Lab Sample ID: 880-40156-8**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:35	1
Diesel Range Organics (Over C10-C28)	200	*+	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:35	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/01/24 13:59	03/01/24 23:35	1
o-Terphenyl	96		70 - 130				03/01/24 13:59	03/01/24 23:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		5.02		mg/Kg			03/01/24 19:42	1

Client Sample ID: CS-9 0.5-1**Lab Sample ID: 880-40156-9**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/01/24 11:20	03/02/24 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				03/01/24 11:20	03/02/24 06:42	1
1,4-Difluorobenzene (Surr)	209	S1+	70 - 130				03/01/24 11:20	03/02/24 06:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/02/24 06:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	181		50.3		mg/Kg			03/01/24 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:57	1
Diesel Range Organics (Over C10-C28)	181	*+	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:57	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/01/24 13:59	03/01/24 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/01/24 13:59	03/01/24 23:57	1
o-Terphenyl	104		70 - 130				03/01/24 13:59	03/01/24 23:57	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-9 0.5-1**Lab Sample ID: 880-40156-9**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	643		4.99		mg/Kg			03/01/24 19:48	1

Client Sample ID: CS-10 0.5-1**Lab Sample ID: 880-40156-10**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/01/24 11:20	03/02/24 07:09	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130				03/01/24 11:20	03/02/24 07:09	1
1,4-Difluorobenzene (Surr)	116		70 - 130				03/01/24 11:20	03/02/24 07:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/02/24 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.1		50.1		mg/Kg			03/02/24 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/01/24 13:59	03/02/24 00:19	1
Diesel Range Organics (Over C10-C28)	64.1	*+	50.1		mg/Kg		03/01/24 13:59	03/02/24 00:19	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/01/24 13:59	03/02/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/01/24 13:59	03/02/24 00:19	1
<i>o-Terphenyl</i>	118		70 - 130				03/01/24 13:59	03/02/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		4.99		mg/Kg			03/01/24 19:53	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-11 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/02/24 11:00	03/03/24 13:44	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		90		70 - 130			03/02/24 11:00	03/03/24 13:44	1
1,4-Difluorobenzene (Surr)		92		70 - 130			03/02/24 11:00	03/03/24 13:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/03/24 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	729		50.4		mg/Kg			03/02/24 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/01/24 13:59	03/02/24 01:03	1
Diesel Range Organics (Over C10-C28)	729	*+	50.4		mg/Kg		03/01/24 13:59	03/02/24 01:03	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/01/24 13:59	03/02/24 01:03	1
Surrogate									Dil Fac
1-Chlorooctane	98		70 - 130				03/01/24 13:59	03/02/24 01:03	1
<i>o-Terphenyl</i>	105		70 - 130				03/01/24 13:59	03/02/24 01:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3460		24.9		mg/Kg			03/01/24 19:59	5

Client Sample ID: CS-12 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/02/24 11:00	03/03/24 14:05	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		74		70 - 130			03/02/24 11:00	03/03/24 14:05	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-12 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-12

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	03/02/24 11:00	03/03/24 14:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/03/24 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.2		50.5		mg/Kg			03/02/24 01:25	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	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/02/24 01:25	1

Diesel Range Organics (Over C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	93.2	*+	50.5		mg/Kg		03/01/24 13:59	03/02/24 01:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/02/24 01:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		70 - 130				03/01/24 13:59	03/02/24 01:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		5.05		mg/Kg			03/01/24 20:16	1

Client Sample ID: CS-13 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/02/24 11:00	03/03/24 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	03/02/24 11:00	03/03/24 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130	03/02/24 11:00	03/03/24 14:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/03/24 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.5		50.0		mg/Kg			03/02/24 01:48	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-13 0.5-1**Lab Sample ID: 880-40156-13**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/02/24 01:48	1
Diesel Range Organics (Over C10-C28)	56.5 *+		50.0		mg/Kg		03/01/24 13:59	03/02/24 01:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/02/24 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/01/24 13:59	03/02/24 01:48	1
o-Terphenyl	97		70 - 130				03/01/24 13:59	03/02/24 01:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		4.98		mg/Kg			03/01/24 20:21	1

Client Sample ID: CS-14 0.5-1**Lab Sample ID: 880-40156-14**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/02/24 11:01	03/03/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/02/24 11:01	03/03/24 14:46	1
1,4-Difluorobenzene (Surr)	70		70 - 130				03/02/24 11:01	03/03/24 14:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/03/24 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	160		50.0		mg/Kg			03/02/24 02:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/02/24 02:11	1
Diesel Range Organics (Over C10-C28)	160 *+		50.0		mg/Kg		03/01/24 13:59	03/02/24 02:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/02/24 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/01/24 13:59	03/02/24 02:11	1
o-Terphenyl	115		70 - 130				03/01/24 13:59	03/02/24 02:11	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-14 0.5-1

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-14

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.96		mg/Kg			03/01/24 20:38	1

Client Sample ID: CS-15 0.5-1

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/02/24 11:01	03/03/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/02/24 11:01	03/03/24 15:06	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/02/24 11:01	03/03/24 15:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/03/24 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.5		49.6		mg/Kg			03/02/24 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/02/24 02:33	1
Diesel Range Organics (Over C10-C28)	55.5	*+	49.6		mg/Kg		03/01/24 13:59	03/02/24 02:33	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/01/24 13:59	03/02/24 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/01/24 13:59	03/02/24 02:33	1
<i>o-Terphenyl</i>	114		70 - 130				03/01/24 13:59	03/02/24 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	719		5.04		mg/Kg			03/01/24 20:43	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-16 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/02/24 11:01	03/03/24 15:27	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		63	S1-	70 - 130			03/02/24 11:01	03/03/24 15:27	1
1,4-Difluorobenzene (Surr)		103		70 - 130			03/02/24 11:01	03/03/24 15:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/03/24 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			03/02/24 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		03/01/24 13:59	03/02/24 02:55	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		03/01/24 13:59	03/02/24 02:55	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/01/24 13:59	03/02/24 02:55	1
Surrogate									Dil Fac
1-Chlorooctane		97	70 - 130				03/01/24 13:59	03/02/24 02:55	1
<i>o</i> -Terphenyl		105	70 - 130				03/01/24 13:59	03/02/24 02:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		5.00		mg/Kg			03/01/24 20:49	1

Client Sample ID: CS-17 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/02/24 11:01	03/03/24 15:48	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		86		70 - 130			03/02/24 11:01	03/03/24 15:48	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-17 0.5-1**Lab Sample ID: 880-40156-17**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	03/02/24 11:01	03/03/24 15:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/03/24 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.9		50.4		mg/Kg			03/02/24 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/01/24 13:59	03/02/24 03:17	1

Diesel Range Organics (Over C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	52.9 *+		50.4		mg/Kg		03/01/24 13:59	03/02/24 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	03/01/24 13:59	03/02/24 03:17	1
o-Terphenyl	65	S1-	70 - 130	03/01/24 13:59	03/02/24 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		4.95		mg/Kg			03/01/24 20:54	1

Client Sample ID: CS-18 0.5-1**Lab Sample ID: 880-40156-18**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 16:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 16:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 16:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/02/24 11:01	03/03/24 16:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/02/24 11:01	03/03/24 16:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/02/24 11:01	03/03/24 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/02/24 11:01	03/03/24 16:08	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	03/02/24 11:01	03/03/24 16:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/03/24 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3		50.5		mg/Kg			03/02/24 03:39	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-18 0.5-1**Lab Sample ID: 880-40156-18**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/02/24 03:39	1
Diesel Range Organics (Over C10-C28)	79.3 *+		50.5		mg/Kg		03/01/24 13:59	03/02/24 03:39	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/01/24 13:59	03/02/24 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				03/01/24 13:59	03/02/24 03:39	1
o-Terphenyl	65	S1-	70 - 130				03/01/24 13:59	03/02/24 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	710		4.98		mg/Kg			03/01/24 21:00	1

Client Sample ID: CS-19 0.5-1**Lab Sample ID: 880-40156-19**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/02/24 11:01	03/03/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				03/02/24 11:01	03/03/24 16:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/02/24 11:01	03/03/24 16:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/03/24 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		49.7		mg/Kg			03/02/24 04:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/01/24 13:59	03/02/24 04:01	1
Diesel Range Organics (Over C10-C28)	106 *+		49.7		mg/Kg		03/01/24 13:59	03/02/24 04:01	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/01/24 13:59	03/02/24 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				03/01/24 13:59	03/02/24 04:01	1
o-Terphenyl	78		70 - 130				03/01/24 13:59	03/02/24 04:01	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-19 0.5-1**Lab Sample ID: 880-40156-19**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		24.8		mg/Kg			03/01/24 21:05	5

Client Sample ID: CS-20 0.5-1**Lab Sample ID: 880-40156-20**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/02/24 11:01	03/03/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/02/24 11:01	03/03/24 16:49	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/02/24 11:01	03/03/24 16:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/03/24 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.5		49.9		mg/Kg			03/02/24 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/01/24 13:59	03/02/24 04:23	1
Diesel Range Organics (Over C10-C28)	64.5	*+	49.9		mg/Kg		03/01/24 13:59	03/02/24 04:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/01/24 13:59	03/02/24 04:23	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/01/24 13:59	03/02/24 04:23	1
<i>o-Terphenyl</i>	99		70 - 130				03/01/24 13:59	03/02/24 04:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	973		4.96		mg/Kg			03/01/24 21:11	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-21 0.5-1**Lab Sample ID: 880-40156-21**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1 *- *1	0.00199		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
Toluene	<0.00199	U F2 F1 *- *1	0.00199		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
Ethylbenzene	<0.00199	U F2 F1 *- *1	0.00199		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
m-Xylene & p-Xylene	<0.00398	U F2 F1 *- *1	0.00398		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
o-Xylene	<0.00199	U F2 F1 *- *1	0.00199		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
Xylenes, Total	<0.00398	U F2 F1 *- *1	0.00398		mg/Kg		03/01/24 11:22	03/01/24 23:20	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		75		70 - 130			03/01/24 11:22	03/01/24 23:20	1
1,4-Difluorobenzene (Surr)		90		70 - 130			03/01/24 11:22	03/01/24 23:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/01/24 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		49.6		mg/Kg			03/01/24 22:09	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	<49.6	U	49.6		mg/Kg		03/01/24 14:04	03/01/24 22:09	1
Diesel Range Organics (Over C10-C28)	106		49.6		mg/Kg		03/01/24 14:04	03/01/24 22:09	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/01/24 14:04	03/01/24 22:09	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		97		70 - 130			03/01/24 14:04	03/01/24 22:09	1
<i>o-Terphenyl</i>		83		70 - 130			03/01/24 14:04	03/01/24 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		5.00		mg/Kg			03/01/24 16:01	1

Client Sample ID: CS-22 0.5-1**Lab Sample ID: 880-40156-22**

Matrix: Solid

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		03/01/24 11:22	03/01/24 23:40	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		03/01/24 11:22	03/01/24 23:40	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		03/01/24 11:22	03/01/24 23:40	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		03/01/24 11:22	03/01/24 23:40	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-22 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-22

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U *-* 1	0.00201		mg/Kg		03/01/24 11:22	03/01/24 23:40	1
Xylenes, Total	<0.00402	U *-* 1	0.00402		mg/Kg		03/01/24 11:22	03/01/24 23:40	1
Surrogate									
4-Bromofluorobenzene (Surr)	92		70 - 130				03/01/24 11:22	03/01/24 23:40	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/01/24 11:22	03/01/24 23:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/01/24 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/01/24 22:31	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	<49.9	U	49.9		mg/Kg		03/01/24 14:04	03/01/24 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/01/24 14:04	03/01/24 22:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/01/24 14:04	03/01/24 22:31	1
Surrogate									
1-Chlorooctane	106		70 - 130				03/01/24 14:04	03/01/24 22:31	1
<i>o</i> -Terphenyl	90		70 - 130				03/01/24 14:04	03/01/24 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	468		4.95		mg/Kg			03/01/24 16:06	1

Client Sample ID: CS-23 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-* 1	0.00202		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
Toluene	<0.00202	U *-* 1	0.00202		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
Ethylbenzene	<0.00202	U *-* 1	0.00202		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
m-Xylene & p-Xylene	<0.00404	U *-* 1	0.00404		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
<i>o</i> -Xylene	<0.00202	U *-* 1	0.00202		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
Xylenes, Total	<0.00404	U *-* 1	0.00404		mg/Kg		03/01/24 11:22	03/02/24 00:01	1
Surrogate									
4-Bromofluorobenzene (Surr)	78		70 - 130				03/01/24 11:22	03/02/24 00:01	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				03/01/24 11:22	03/02/24 00:01	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-23 0.5-1

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-23

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/02/24 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.7		50.1		mg/Kg			03/01/24 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/01/24 14:04	03/01/24 22:52	1
Diesel Range Organics (Over C10-C28)	70.7		50.1		mg/Kg		03/01/24 14:04	03/01/24 22:52	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/01/24 14:04	03/01/24 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/01/24 14:04	03/01/24 22:52	1
<i>o</i> -Terphenyl	90		70 - 130				03/01/24 14:04	03/01/24 22:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		4.95		mg/Kg			03/01/24 16:23	1

Client Sample ID: CS-24 0.5-1

Date Collected: 02/29/24 00:00
 Date Received: 02/29/24 16:40
 Sample Depth: 0.5-1

Lab Sample ID: 880-40156-24

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-* 1	0.00200		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
Toluene	<0.00200	U *-* 1	0.00200		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
Ethylbenzene	<0.00200	U *-* 1	0.00200		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
m-Xylene & p-Xylene	<0.00401	U *-* 1	0.00401		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
<i>o</i> -Xylene	<0.00200	U *-* 1	0.00200		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
Xylenes, Total	<0.00401	U *-* 1	0.00401		mg/Kg		03/01/24 11:22	03/02/24 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/01/24 11:22	03/02/24 00:22	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/01/24 11:22	03/02/24 00:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/02/24 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/01/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/01/24 14:04	03/01/24 23:14	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-24 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-24

Matrix: Solid

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)	<50.4	U	50.4		mg/Kg		03/01/24 14:04	03/01/24 23:14	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/01/24 14:04	03/01/24 23:14	1
Surrogate									
1-Chlorooctane	101		70 - 130				03/01/24 14:04	03/01/24 23:14	1
o-Terphenyl	86		70 - 130				03/01/24 14:04	03/01/24 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.96		mg/Kg			03/01/24 16:29	1

Client Sample ID: CS-25 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Sample Depth: 0.5-1

Lab Sample ID: 880-40156-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-* 1	0.00199		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
Toluene	<0.00199	U *-* 1	0.00199		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
Ethylbenzene	<0.00199	U *-* 1	0.00199		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
m-Xylene & p-Xylene	<0.00398	U *-* 1	0.00398		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
o-Xylene	<0.00199	U *-* 1	0.00199		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
Xylenes, Total	<0.00398	U *-* 1	0.00398		mg/Kg		03/01/24 11:22	03/02/24 00:42	1
Surrogate									
4-Bromofluorobenzene (Surr)	86		70 - 130				03/01/24 11:22	03/02/24 00:42	1
1,4-Difluorobenzene (Surr)	73		70 - 130				03/01/24 11:22	03/02/24 00:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/02/24 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/01/24 23:35	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	<50.5	U	50.5		mg/Kg		03/01/24 14:04	03/01/24 23:35	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/01/24 14:04	03/01/24 23:35	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/01/24 14:04	03/01/24 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/01/24 14:04	03/01/24 23:35	1
o-Terphenyl	82		70 - 130				03/01/24 14:04	03/01/24 23:35	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-25 0.5-1
Date Collected: 02/29/24 00:00
Date Received: 02/29/24 16:40
Sample Depth: 0.5-1

Lab Sample ID: 880-40156-25
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		5.00		mg/Kg			03/01/24 16:34	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Midland

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-40156-1	CS-1 0.5-1	130	90
880-40156-1 MS	CS-1 0.5-1	146 S1+	129
880-40156-1 MSD	CS-1 0.5-1	92	40 S1-
880-40156-2	CS-2 0.5-1	136 S1+	109
880-40156-3	CS-3 0.5-1	88	138 S1+
880-40156-4	CS-4 0.5-1	85	144 S1+
880-40156-5	CS-5 0.5-1	111	87
880-40156-6	CS-6 0.5-1	88	110
880-40156-7	CS-7 0.5-1	78	118
880-40156-8	CS-8 0.5-1	150 S1+	209 S1+
880-40156-9	CS-9 0.5-1	143 S1+	209 S1+
880-40156-10	CS-10 0.5-1	170 S1+	116
880-40156-11	CS-11 0.5-1	90	92
880-40156-11 MS	CS-11 0.5-1	101	109
880-40156-11 MSD	CS-11 0.5-1	103	119
880-40156-12	CS-12 0.5-1	74	91
880-40156-13	CS-13 0.5-1	88	81
880-40156-14	CS-14 0.5-1	83	70
880-40156-15	CS-15 0.5-1	81	84
880-40156-16	CS-16 0.5-1	63 S1-	103
880-40156-17	CS-17 0.5-1	86	85
880-40156-18	CS-18 0.5-1	78	68 S1-
880-40156-19	CS-19 0.5-1	75	91
880-40156-20	CS-20 0.5-1	76	90
880-40156-21	CS-21 0.5-1	75	90
880-40156-21 MS	CS-21 0.5-1	82	70
880-40156-21 MSD	CS-21 0.5-1	118	116
880-40156-22	CS-22 0.5-1	92	84
880-40156-23	CS-23 0.5-1	78	67 S1-
880-40156-24	CS-24 0.5-1	93	88
880-40156-25	CS-25 0.5-1	86	73
LCS 880-74465/1-A	Lab Control Sample	126	116
LCS 880-74466/1-A	Lab Control Sample	95	86
LCS 880-74521/1-A	Lab Control Sample	102	118
LCSD 880-74465/2-A	Lab Control Sample Dup	124	8 S1-
LCSD 880-74466/2-A	Lab Control Sample Dup	118	116
LCSD 880-74521/2-A	Lab Control Sample Dup	102	88
MB 880-74374/5-A	Method Blank	69 S1-	122
MB 880-74451/5-A	Method Blank	77	93
MB 880-74465/5-A	Method Blank	76	125
MB 880-74466/5-A	Method Blank	75	91
MB 880-74521/5-A	Method Blank	77	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
880-40156-1	CS-1 0.5-1	100	111	
880-40156-1 MS	CS-1 0.5-1	102	101	
880-40156-1 MSD	CS-1 0.5-1	100	100	
880-40156-2	CS-2 0.5-1	112	123	
880-40156-3	CS-3 0.5-1	100	109	
880-40156-4	CS-4 0.5-1	101	110	
880-40156-5	CS-5 0.5-1	92	100	
880-40156-6	CS-6 0.5-1	91	99	
880-40156-7	CS-7 0.5-1	96	100	
880-40156-8	CS-8 0.5-1	91	96	
880-40156-9	CS-9 0.5-1	99	104	
880-40156-10	CS-10 0.5-1	109	118	
880-40156-11	CS-11 0.5-1	98	105	
880-40156-12	CS-12 0.5-1	91	97	
880-40156-13	CS-13 0.5-1	89	97	
880-40156-14	CS-14 0.5-1	105	115	
880-40156-15	CS-15 0.5-1	106	114	
880-40156-16	CS-16 0.5-1	97	105	
880-40156-17	CS-17 0.5-1	61 S1-	65 S1-	
880-40156-18	CS-18 0.5-1	60 S1-	65 S1-	
880-40156-19	CS-19 0.5-1	74	78	
880-40156-20	CS-20 0.5-1	90	99	
880-40156-21	CS-21 0.5-1	97	83	
880-40156-22	CS-22 0.5-1	106	90	
880-40156-23	CS-23 0.5-1	104	90	
880-40156-24	CS-24 0.5-1	101	86	
880-40156-25	CS-25 0.5-1	95	82	
890-6286-A-1-E MS	Matrix Spike	108	84	
890-6286-A-1-F MSD	Matrix Spike Duplicate	105	84	
LCS 880-74493/2-A	Lab Control Sample	96	98	
LCS 880-74494/2-A	Lab Control Sample	128	131 S1+	
LCSD 880-74493/3-A	Lab Control Sample Dup	110	117	
LCSD 880-74494/3-A	Lab Control Sample Dup	121	112	
MB 880-74493/1-A	Method Blank	123	137 S1+	
MB 880-74494/1-A	Method Blank	156 S1+	135 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-74374/5-A****Matrix: Solid****Analysis Batch: 74456****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 74374**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/29/24 12:50	03/01/24 12:25	1
Surrogate	MB		Limits	%Recovery	Qualifier	Prepared	Analyzed	Dil Fac	
	69	S1-	70 - 130						
4-Bromofluorobenzene (Surr)						02/29/24 12:50	03/01/24 12:25	1	
1,4-Difluorobenzene (Surr)	122		70 - 130			02/29/24 12:50	03/01/24 12:25	1	

Lab Sample ID: MB 880-74451/5-A**Matrix: Solid****Analysis Batch: 74453****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 74451**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/01/24 08:34	03/01/24 11:50	1
Surrogate	MB		Limits	%Recovery	Qualifier	Prepared	Analyzed	Dil Fac	
	77		70 - 130						
4-Bromofluorobenzene (Surr)						03/01/24 08:34	03/01/24 11:50	1	
1,4-Difluorobenzene (Surr)	93		70 - 130			03/01/24 08:34	03/01/24 11:50	1	

Lab Sample ID: MB 880-74465/5-A**Matrix: Solid****Analysis Batch: 74456****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 74465**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/01/24 11:20	03/02/24 02:49	1
Surrogate	MB		Limits	%Recovery	Qualifier	Prepared	Analyzed	Dil Fac	
	76		70 - 130						
4-Bromofluorobenzene (Surr)						03/01/24 11:20	03/02/24 02:49	1	
1,4-Difluorobenzene (Surr)	125		70 - 130			03/01/24 11:20	03/02/24 02:49	1	

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCS 880-74465/1-A****Matrix: Solid****Analysis Batch: 74456****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 74465**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limits	
Benzene	0.100	0.08180		mg/Kg		82	70 - 130	
Toluene	0.100	0.09081		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09292		mg/Kg		93	70 - 130	
Surrogate		LCS	LCS					
		%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	126							
1,4-Difluorobenzene (Surr)	116							

Lab Sample ID: LCSD 880-74465/2-A**Matrix: Solid****Analysis Batch: 74456****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 74465**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit	
		Result	Qualifier				Limits			
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	21	35	
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	12	35	
Ethylbenzene	0.100	0.1220		mg/Kg		122	70 - 130	11	35	
m-Xylene & p-Xylene	0.200	0.2366		mg/Kg		118	70 - 130	24	35	
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	9	35	
Surrogate		LCSD	LCSD							
		%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	124									
1,4-Difluorobenzene (Surr)	8	S1-								

Lab Sample ID: 880-40156-1 MS**Matrix: Solid****Analysis Batch: 74456****Client Sample ID: CS-1 0.5-1****Prep Type: Total/NA****Prep Batch: 74465**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00199	U F1 F2	0.101	0.1413	F1	mg/Kg		140	70 - 130	
Toluene	<0.00199	U F1 F2	0.101	0.1244		mg/Kg		123	70 - 130	
Ethylbenzene	<0.00199	U F1 F2	0.101	0.1116		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.2437		mg/Kg		121	70 - 130	
o-Xylene	<0.00199	U F1 F2	0.101	0.1237		mg/Kg		123	70 - 130	
Surrogate		MS	MS							
		%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	146	S1+								
1,4-Difluorobenzene (Surr)	129									

Lab Sample ID: 880-40156-1 MSD**Matrix: Solid****Analysis Batch: 74456****Client Sample ID: CS-1 0.5-1****Prep Type: Total/NA****Prep Batch: 74465**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U F1 F2	0.100	0.06416	F1 F2	mg/Kg		64	70 - 130	75	35
Toluene	<0.00199	U F1 F2	0.100	0.06611	F1 F2	mg/Kg		66	70 - 130	61	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.06487	F1 F2	mg/Kg		65	70 - 130	53	35

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Lab Sample ID: 880-40156-1 MSD

Matrix: Solid

Analysis Batch: 74456

Client Sample ID: CS-1 0.5-1
 Prep Type: Total/NA
 Prep Batch: 74465

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1090	F1 F2	mg/Kg		54	70 - 130	76	35
o-Xylene	<0.00199	U F1 F2	0.100	0.06824	F1 F2	mg/Kg		68	70 - 130	58	35
Surrogate											
4-Bromofluorobenzene (Surr)	92	%Recovery	Qualifier	Limits							
1,4-Difluorobenzene (Surr)	40	S1-		70 - 130							

Lab Sample ID: MB 880-74466/5-A

Matrix: Solid

Analysis Batch: 74453

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 74466

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/01/24 11:22	03/01/24 22:58	1	
Surrogate										
4-Bromofluorobenzene (Surr)	75	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91			70 - 130				03/01/24 11:22	03/01/24 22:58	1

Lab Sample ID: LCS 880-74466/1-A

Matrix: Solid

Analysis Batch: 74453

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 74466

Analyte	Spikes	LCS	LCS	Unit	D	%Rec	Limits		
	Added	Result	Qualifier						
Benzene	0.100	0.01780	*1	mg/Kg		18	70 - 130		
Toluene	0.100	0.03123	*1	mg/Kg		31	70 - 130		
Ethylbenzene	0.100	0.02945	*1	mg/Kg		29	70 - 130		
m-Xylene & p-Xylene	0.200	0.06171	*1	mg/Kg		31	70 - 130		
o-Xylene	0.100	0.03494	*1	mg/Kg		35	70 - 130		
Surrogate									
4-Bromofluorobenzene (Surr)	95	%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86			70 - 130		03/01/24 11:22		03/01/24 22:58	1

Lab Sample ID: LCSD 880-74466/2-A

Matrix: Solid

Analysis Batch: 74453

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 74466

Analyte	Spikes	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Benzene	0.100	0.08219	*1	mg/Kg		82	70 - 130	129	35
Toluene	0.100	0.1015	*1	mg/Kg		101	70 - 130	106	35
Ethylbenzene	0.100	0.1206	*1	mg/Kg		121	70 - 130	121	35
m-Xylene & p-Xylene	0.200	0.2342	*1	mg/Kg		117	70 - 130	117	35
o-Xylene	0.100	0.1163	*1	mg/Kg		116	70 - 130	108	35

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 880-40156-21 MS**Client Sample ID: CS-21 0.5-1****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 74453****Prep Batch: 74466**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00199	U F2 F1 *- *1	0.101	0.01833	F1	mg/Kg		17	70 - 130	
Toluene	<0.00199	U F2 F1 *- *1	0.101	0.02905	F1	mg/Kg		29	70 - 130	
Ethylbenzene	<0.00199	U F2 F1 *- *1	0.101	0.02581	F1	mg/Kg		26	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1 *- *1	0.202	0.04799	F1	mg/Kg		23	70 - 130	
o-Xylene	<0.00199	U F2 F1 *- *1	0.101	0.02564	F1	mg/Kg		25	70 - 130	

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

Lab Sample ID: 880-40156-21 MSD**Client Sample ID: CS-21 0.5-1****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 74453****Prep Batch: 74466**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U F2 F1 *- *1	0.100	0.06028	F2 F1	mg/Kg		59	70 - 130	107	35
Toluene	<0.00199	U F2 F1 *- *1	0.100	0.07312	F2	mg/Kg		73	70 - 130	86	35
Ethylbenzene	<0.00199	U F2 F1 *- *1	0.100	0.08300	F2	mg/Kg		83	70 - 130	105	35
m-Xylene & p-Xylene	<0.00398	U F2 F1 *- *1	0.200	0.1606	F2	mg/Kg		80	70 - 130	108	35
o-Xylene	<0.00199	U F2 F1 *- *1	0.100	0.08042	F2	mg/Kg		80	70 - 130	103	35

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: MB 880-74521/5-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 74546****Prep Batch: 74521**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-74521/5-A****Matrix: Solid****Analysis Batch: 74546****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 74521**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Surrogate									
4-Bromofluorobenzene (Surr)									
4-Bromofluorobenzene (Surr)	77		70 - 130				03/02/24 11:00	03/03/24 13:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/02/24 11:00	03/03/24 13:22	1

Lab Sample ID: LCS 880-74521/1-A**Matrix: Solid****Analysis Batch: 74546****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 74521**

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec
	Result	Qualifier								
Benzene			0.100	0.09200		mg/Kg		92	70 - 130	
Toluene			0.100	0.1102		mg/Kg		110	70 - 130	
Ethylbenzene			0.100	0.1171		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene			0.200	0.2342		mg/Kg		117	70 - 130	
o-Xylene			0.100	0.1154		mg/Kg		115	70 - 130	
Surrogate										
4-Bromofluorobenzene (Surr)										
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	118		70 - 130							

Lab Sample ID: LCSD 880-74521/2-A**Matrix: Solid****Analysis Batch: 74546****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 74521**

Analyte	MB	MB	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier									
Benzene			0.100	0.08156		mg/Kg		82	70 - 130	12	35
Toluene			0.100	0.09980		mg/Kg		100	70 - 130	10	35
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2115		mg/Kg		106	70 - 130	10	35
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130	10	35
Surrogate											
4-Bromofluorobenzene (Surr)											
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	88		70 - 130								

Lab Sample ID: 880-40156-11 MS**Matrix: Solid****Analysis Batch: 74546****Client Sample ID: CS-11 0.5-1****Prep Type: Total/NA****Prep Batch: 74521**

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier									
Benzene	<0.00199	U F1	0.101	0.06322	F1	mg/Kg		62	70 - 130		
Toluene	<0.00199	U F1	0.101	0.06568	F1	mg/Kg		65	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.06037	F1	mg/Kg		60	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1155	F1	mg/Kg		57	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.101	0.05892	F1	mg/Kg		58	70 - 130		

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Lab Sample ID: 880-40156-11 MS

Matrix: Solid

Analysis Batch: 74546

Client Sample ID: CS-11 0.5-1

Prep Type: Total/NA

Prep Batch: 74521

Surrogate	MS	MS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101				70 - 130
1,4-Difluorobenzene (Surr)	109				70 - 130

Lab Sample ID: 880-40156-11 MSD

Matrix: Solid

Analysis Batch: 74546

Client Sample ID: CS-11 0.5-1

Prep Type: Total/NA

Prep Batch: 74521

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U F1	0.100	0.08912		mg/Kg	88	70 - 130	34	35	
Toluene	<0.00199	U F1	0.100	0.08378		mg/Kg	83	70 - 130	24	35	
Ethylbenzene	<0.00199	U F1	0.100	0.06828	F1	mg/Kg	68	70 - 130	12	35	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1348	F1	mg/Kg	67	70 - 130	15	35	
o-Xylene	<0.00199	U F2 F1	0.100	0.1011	F2	mg/Kg	101	70 - 130	53	35	

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103				70 - 130
1,4-Difluorobenzene (Surr)	119				70 - 130

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

Lab Sample ID: MB 880-74493/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 74447

Prep Batch: 74493

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/01/24 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/01/24 19:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 13:59	03/01/24 19:16	1

Surrogate	MB	MB	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier			
1-Chlorooctane	123		03/01/24 13:59	03/01/24 19:16	1
o-Terphenyl	137	S1+	03/01/24 13:59	03/01/24 19:16	1

Lab Sample ID: LCS 880-74493/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 74447

Prep Batch: 74493

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	923.4		mg/Kg	92	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1122		mg/Kg	112	70 - 130	

Surrogate	LCS	LCS	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier			
1-Chlorooctane	96		03/01/24 13:59	03/01/24 19:16	1
o-Terphenyl	98		03/01/24 13:59	03/01/24 19:16	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Lab Sample ID: LCSD 880-74493/3-A Client Sample ID: Lab Control Sample Dup
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 74447 Prep Batch: 74493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130	9 20
Diesel Range Organics (Over C10-C28)	1000	1328 *+		mg/Kg		133	70 - 130	17 20
Surrogate								
LCSD %Recovery LCSD Qualifier LCSD Limits								
1-Chlorooctane	110		70 - 130					
o-Terphenyl	117		70 - 130					

Lab Sample ID: 880-40156-1 MS Client Sample ID: CS-1 0.5-1
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 74447 Prep Batch: 74493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	962.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U *+	1010	1020		mg/Kg		97	70 - 130
Surrogate									
MS %Recovery MS Qualifier MS Limits									
1-Chlorooctane	102		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 880-40156-1 MSD Client Sample ID: CS-1 0.5-1
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 74447 Prep Batch: 74493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	961.7		mg/Kg		91	70 - 130	0 20
Diesel Range Organics (Over C10-C28)	<49.6	U *+	1010	1007		mg/Kg		95	70 - 130	1 20
Surrogate										
MSD %Recovery MSD Qualifier MSD Limits										
1-Chlorooctane	100		70 - 130							
o-Terphenyl	100		70 - 130							

Lab Sample ID: MB 880-74494/1-A Client Sample ID: Method Blank
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 74445 Prep Batch: 74494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Lab Sample ID: MB 880-74494/1-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74494

Surrogate	MB	MB	%Recovery	Qualifier	Limits
1-Chlorooctane			156	S1+	70 - 130
<i>o</i> -Terphenyl			135	S1+	70 - 130

Prepared Analyzed Dil Fac
 03/01/24 14:04 03/01/24 19:16 1
 03/01/24 14:04 03/01/24 19:16 1

Lab Sample ID: LCS 880-74494/2-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 74494

Analyte		Spike	LCS	LCS		%Rec			
Surrogate		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	763.9		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	1101		mg/Kg		110	70 - 130	
Surrogate		LCS	LCS						
Surrogate		%Recovery	Qualifier	Limits					
1-Chlorooctane		128		70 - 130					
<i>o</i> -Terphenyl		131	S1+	70 - 130					

Lab Sample ID: LCSD 880-74494/3-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 74494

Analyte		Spike	LCSD	LCSD		%Rec			RPD	
Surrogate		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	752.7		mg/Kg		75	70 - 130	1	20
Diesel Range Organics (Over C10-C28)		1000	1007		mg/Kg		101	70 - 130	9	20
Surrogate		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		121		70 - 130						
<i>o</i> -Terphenyl		112		70 - 130						

Lab Sample ID: 890-6286-A-1-E MS

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 74494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec		
Surrogate	%Recovery	Qualifier	Limits							
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1010	1050		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	59.6		1010	979.5		mg/Kg		91	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
Surrogate										
1-Chlorooctane	108		70 - 130							
<i>o</i> -Terphenyl	84		70 - 130							

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

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

Lab Sample ID: 890-6286-A-1-F MSD							Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid							Prep Type: Total/NA						
Analysis Batch: 74445							Prep Batch: 74494						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1010	902.9		mg/Kg		85	70 - 130	15		20	
Diesel Range Organics (Over C10-C28)	59.6		1010	958.6		mg/Kg		89	70 - 130	2		20	
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits										
1-Chlorooctane	105		70 - 130										
<i>o</i> -Terphenyl	84		70 - 130										

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74425/1-A							Client Sample ID: Method Blank						
Matrix: Solid							Prep Type: Soluble						
Analysis Batch: 74502													
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U		5.00	mg/Kg			03/01/24 15:17					1

Lab Sample ID: LCS 880-74425/2-A							Client Sample ID: Lab Control Sample						
Matrix: Solid							Prep Type: Soluble						
Analysis Batch: 74502													
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits						
Chloride	250	245.0		mg/Kg		98	90 - 110						

Lab Sample ID: LCSD 880-74425/3-A							Client Sample ID: Lab Control Sample Dup						
Matrix: Solid							Prep Type: Soluble						
Analysis Batch: 74502													
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits						
Chloride	250	245.5		mg/Kg		98	90 - 110						20

Lab Sample ID: 890-6286-A-1-B MS							Client Sample ID: Matrix Spike						
Matrix: Solid							Prep Type: Soluble						
Analysis Batch: 74502													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit	Limit
Chloride	977		1250	2261		mg/Kg		103	90 - 110	0		20	

Lab Sample ID: 890-6286-A-1-C MSD							Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid							Prep Type: Soluble						
Analysis Batch: 74502													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit	Limit
Chloride	977		1250	2271		mg/Kg		104	90 - 110	0		20	

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-74462/1-A

Client Sample ID: Method Blank
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			03/01/24 18:25	1

Lab Sample ID: LCS 880-74462/2-A

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	RPD
	Added								
Chloride		250	241.5		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-74462/3-A

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

Matrix: Solid

Analysis Batch: 74503

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD
	Added								
Chloride		250	243.6		mg/Kg		97	90 - 110	1

Lab Sample ID: 880-40156-1 MS

Client Sample ID: CS-1 0.5-1
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	227		250	459.5		mg/Kg		93	90 - 110

Lab Sample ID: 880-40156-1 MSD

Client Sample ID: CS-1 0.5-1
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	227		250	460.2		mg/Kg		93	90 - 110

Lab Sample ID: 880-40156-11 MS

Client Sample ID: CS-11 0.5-1
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	3460		1250	4789		mg/Kg		107	90 - 110

Lab Sample ID: 880-40156-11 MSD

Client Sample ID: CS-11 0.5-1
 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 74503

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	3460		1250	4704		mg/Kg		100	90 - 110

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

GC VOA**Prep Batch: 74374**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74374/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74451/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 74453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Total/NA	Solid	8021B	74466
880-40156-22	CS-22 0.5-1	Total/NA	Solid	8021B	74466
880-40156-23	CS-23 0.5-1	Total/NA	Solid	8021B	74466
880-40156-24	CS-24 0.5-1	Total/NA	Solid	8021B	74466
880-40156-25	CS-25 0.5-1	Total/NA	Solid	8021B	74466
MB 880-74451/5-A	Method Blank	Total/NA	Solid	8021B	74451
MB 880-74466/5-A	Method Blank	Total/NA	Solid	8021B	74466
LCS 880-74466/1-A	Lab Control Sample	Total/NA	Solid	8021B	74466
LCSD 880-74466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74466
880-40156-21 MS	CS-21 0.5-1	Total/NA	Solid	8021B	74466
880-40156-21 MSD	CS-21 0.5-1	Total/NA	Solid	8021B	74466

Analysis Batch: 74456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	8021B	74465
880-40156-2	CS-2 0.5-1	Total/NA	Solid	8021B	74465
880-40156-3	CS-3 0.5-1	Total/NA	Solid	8021B	74465
880-40156-4	CS-4 0.5-1	Total/NA	Solid	8021B	74465
880-40156-5	CS-5 0.5-1	Total/NA	Solid	8021B	74465
880-40156-6	CS-6 0.5-1	Total/NA	Solid	8021B	74465
880-40156-7	CS-7 0.5-1	Total/NA	Solid	8021B	74465
880-40156-8	CS-8 0.5-1	Total/NA	Solid	8021B	74465
880-40156-9	CS-9 0.5-1	Total/NA	Solid	8021B	74465
880-40156-10	CS-10 0.5-1	Total/NA	Solid	8021B	74465
MB 880-74374/5-A	Method Blank	Total/NA	Solid	8021B	74374
MB 880-74465/5-A	Method Blank	Total/NA	Solid	8021B	74465
LCS 880-74465/1-A	Lab Control Sample	Total/NA	Solid	8021B	74465
LCSD 880-74465/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74465
880-40156-1 MS	CS-1 0.5-1	Total/NA	Solid	8021B	74465
880-40156-1 MSD	CS-1 0.5-1	Total/NA	Solid	8021B	74465

Prep Batch: 74465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	5035	
880-40156-2	CS-2 0.5-1	Total/NA	Solid	5035	
880-40156-3	CS-3 0.5-1	Total/NA	Solid	5035	
880-40156-4	CS-4 0.5-1	Total/NA	Solid	5035	
880-40156-5	CS-5 0.5-1	Total/NA	Solid	5035	
880-40156-6	CS-6 0.5-1	Total/NA	Solid	5035	
880-40156-7	CS-7 0.5-1	Total/NA	Solid	5035	
880-40156-8	CS-8 0.5-1	Total/NA	Solid	5035	
880-40156-9	CS-9 0.5-1	Total/NA	Solid	5035	
880-40156-10	CS-10 0.5-1	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

GC VOA (Continued)**Prep Batch: 74465 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74465/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74465/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74465/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40156-1 MS	CS-1 0.5-1	Total/NA	Solid	5035	
880-40156-1 MSD	CS-1 0.5-1	Total/NA	Solid	5035	

Prep Batch: 74466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Total/NA	Solid	5035	
880-40156-22	CS-22 0.5-1	Total/NA	Solid	5035	
880-40156-23	CS-23 0.5-1	Total/NA	Solid	5035	
880-40156-24	CS-24 0.5-1	Total/NA	Solid	5035	
880-40156-25	CS-25 0.5-1	Total/NA	Solid	5035	
MB 880-74466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40156-21 MS	CS-21 0.5-1	Total/NA	Solid	5035	
880-40156-21 MSD	CS-21 0.5-1	Total/NA	Solid	5035	

Prep Batch: 74521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-11	CS-11 0.5-1	Total/NA	Solid	5035	
880-40156-12	CS-12 0.5-1	Total/NA	Solid	5035	
880-40156-13	CS-13 0.5-1	Total/NA	Solid	5035	
880-40156-14	CS-14 0.5-1	Total/NA	Solid	5035	
880-40156-15	CS-15 0.5-1	Total/NA	Solid	5035	
880-40156-16	CS-16 0.5-1	Total/NA	Solid	5035	
880-40156-17	CS-17 0.5-1	Total/NA	Solid	5035	
880-40156-18	CS-18 0.5-1	Total/NA	Solid	5035	
880-40156-19	CS-19 0.5-1	Total/NA	Solid	5035	
880-40156-20	CS-20 0.5-1	Total/NA	Solid	5035	
MB 880-74521/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74521/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74521/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40156-11 MS	CS-11 0.5-1	Total/NA	Solid	5035	
880-40156-11 MSD	CS-11 0.5-1	Total/NA	Solid	5035	

Analysis Batch: 74546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-11	CS-11 0.5-1	Total/NA	Solid	8021B	74521
880-40156-12	CS-12 0.5-1	Total/NA	Solid	8021B	74521
880-40156-13	CS-13 0.5-1	Total/NA	Solid	8021B	74521
880-40156-14	CS-14 0.5-1	Total/NA	Solid	8021B	74521
880-40156-15	CS-15 0.5-1	Total/NA	Solid	8021B	74521
880-40156-16	CS-16 0.5-1	Total/NA	Solid	8021B	74521
880-40156-17	CS-17 0.5-1	Total/NA	Solid	8021B	74521
880-40156-18	CS-18 0.5-1	Total/NA	Solid	8021B	74521
880-40156-19	CS-19 0.5-1	Total/NA	Solid	8021B	74521
880-40156-20	CS-20 0.5-1	Total/NA	Solid	8021B	74521
MB 880-74521/5-A	Method Blank	Total/NA	Solid	8021B	74521
LCS 880-74521/1-A	Lab Control Sample	Total/NA	Solid	8021B	74521

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

GC VOA (Continued)**Analysis Batch: 74546 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-74521/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74521
880-40156-11 MS	CS-11 0.5-1	Total/NA	Solid	8021B	74521
880-40156-11 MSD	CS-11 0.5-1	Total/NA	Solid	8021B	74521

Analysis Batch: 74708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-2	CS-2 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-3	CS-3 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-4	CS-4 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-5	CS-5 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-6	CS-6 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-7	CS-7 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-8	CS-8 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-9	CS-9 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-10	CS-10 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-11	CS-11 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-12	CS-12 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-13	CS-13 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-14	CS-14 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-15	CS-15 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-16	CS-16 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-17	CS-17 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-18	CS-18 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-19	CS-19 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-20	CS-20 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-21	CS-21 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-22	CS-22 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-23	CS-23 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-24	CS-24 0.5-1	Total/NA	Solid	Total BTEX	
880-40156-25	CS-25 0.5-1	Total/NA	Solid	Total BTEX	
MB 880-74494/1-A	Method Blank	Total/NA	Solid	8015B NM	74494
LCS 880-74494/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74494
LCSD 880-74494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74494
890-6286-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	74494
890-6286-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74494

GC Semi VOA**Analysis Batch: 74445**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Total/NA	Solid	8015B NM	74494
880-40156-22	CS-22 0.5-1	Total/NA	Solid	8015B NM	74494
880-40156-23	CS-23 0.5-1	Total/NA	Solid	8015B NM	74494
880-40156-24	CS-24 0.5-1	Total/NA	Solid	8015B NM	74494
880-40156-25	CS-25 0.5-1	Total/NA	Solid	8015B NM	74494
MB 880-74494/1-A	Method Blank	Total/NA	Solid	8015B NM	74494
LCS 880-74494/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74494
LCSD 880-74494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74494
890-6286-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	74494
890-6286-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74494

Analysis Batch: 74447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-2	CS-2 0.5-1	Total/NA	Solid	8015B NM	74493

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

GC Semi VOA (Continued)**Analysis Batch: 74447 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-3	CS-3 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-4	CS-4 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-5	CS-5 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-6	CS-6 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-7	CS-7 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-8	CS-8 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-9	CS-9 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-10	CS-10 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-11	CS-11 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-12	CS-12 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-13	CS-13 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-14	CS-14 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-15	CS-15 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-16	CS-16 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-17	CS-17 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-18	CS-18 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-19	CS-19 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-20	CS-20 0.5-1	Total/NA	Solid	8015B NM	74493
MB 880-74493/1-A	Method Blank	Total/NA	Solid	8015B NM	74493
LCS 880-74493/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74493
LCSD 880-74493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74493
880-40156-1 MS	CS-1 0.5-1	Total/NA	Solid	8015B NM	74493
880-40156-1 MSD	CS-1 0.5-1	Total/NA	Solid	8015B NM	74493

Prep Batch: 74493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-2	CS-2 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-3	CS-3 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-4	CS-4 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-5	CS-5 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-6	CS-6 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-7	CS-7 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-8	CS-8 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-9	CS-9 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-10	CS-10 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-11	CS-11 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-12	CS-12 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-13	CS-13 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-14	CS-14 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-15	CS-15 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-16	CS-16 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-17	CS-17 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-18	CS-18 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-19	CS-19 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-20	CS-20 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-74493/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74493/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40156-1 MS	CS-1 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-1 MSD	CS-1 0.5-1	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

GC Semi VOA**Prep Batch: 74494**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-22	CS-22 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-23	CS-23 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-24	CS-24 0.5-1	Total/NA	Solid	8015NM Prep	
880-40156-25	CS-25 0.5-1	Total/NA	Solid	8015NM Prep	
MB 880-74494/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74494/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6286-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6286-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Total/NA	Solid	8015 NM	
880-40156-2	CS-2 0.5-1	Total/NA	Solid	8015 NM	
880-40156-3	CS-3 0.5-1	Total/NA	Solid	8015 NM	
880-40156-4	CS-4 0.5-1	Total/NA	Solid	8015 NM	
880-40156-5	CS-5 0.5-1	Total/NA	Solid	8015 NM	
880-40156-6	CS-6 0.5-1	Total/NA	Solid	8015 NM	
880-40156-7	CS-7 0.5-1	Total/NA	Solid	8015 NM	
880-40156-8	CS-8 0.5-1	Total/NA	Solid	8015 NM	
880-40156-9	CS-9 0.5-1	Total/NA	Solid	8015 NM	
880-40156-10	CS-10 0.5-1	Total/NA	Solid	8015 NM	
880-40156-11	CS-11 0.5-1	Total/NA	Solid	8015 NM	
880-40156-12	CS-12 0.5-1	Total/NA	Solid	8015 NM	
880-40156-13	CS-13 0.5-1	Total/NA	Solid	8015 NM	
880-40156-14	CS-14 0.5-1	Total/NA	Solid	8015 NM	
880-40156-15	CS-15 0.5-1	Total/NA	Solid	8015 NM	
880-40156-16	CS-16 0.5-1	Total/NA	Solid	8015 NM	
880-40156-17	CS-17 0.5-1	Total/NA	Solid	8015 NM	
880-40156-18	CS-18 0.5-1	Total/NA	Solid	8015 NM	
880-40156-19	CS-19 0.5-1	Total/NA	Solid	8015 NM	
880-40156-20	CS-20 0.5-1	Total/NA	Solid	8015 NM	
880-40156-21	CS-21 0.5-1	Total/NA	Solid	8015 NM	
880-40156-22	CS-22 0.5-1	Total/NA	Solid	8015 NM	
880-40156-23	CS-23 0.5-1	Total/NA	Solid	8015 NM	
880-40156-24	CS-24 0.5-1	Total/NA	Solid	8015 NM	
880-40156-25	CS-25 0.5-1	Total/NA	Solid	8015 NM	

HPLC/IC**Leach Batch: 74425**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Soluble	Solid	DI Leach	
880-40156-22	CS-22 0.5-1	Soluble	Solid	DI Leach	
880-40156-23	CS-23 0.5-1	Soluble	Solid	DI Leach	
880-40156-24	CS-24 0.5-1	Soluble	Solid	DI Leach	
880-40156-25	CS-25 0.5-1	Soluble	Solid	DI Leach	
MB 880-74425/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

HPLC/IC (Continued)**Leach Batch: 74425 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6286-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 74462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Soluble	Solid	DI Leach	
880-40156-2	CS-2 0.5-1	Soluble	Solid	DI Leach	
880-40156-3	CS-3 0.5-1	Soluble	Solid	DI Leach	
880-40156-4	CS-4 0.5-1	Soluble	Solid	DI Leach	
880-40156-5	CS-5 0.5-1	Soluble	Solid	DI Leach	
880-40156-6	CS-6 0.5-1	Soluble	Solid	DI Leach	
880-40156-7	CS-7 0.5-1	Soluble	Solid	DI Leach	
880-40156-8	CS-8 0.5-1	Soluble	Solid	DI Leach	
880-40156-9	CS-9 0.5-1	Soluble	Solid	DI Leach	
880-40156-10	CS-10 0.5-1	Soluble	Solid	DI Leach	
880-40156-11	CS-11 0.5-1	Soluble	Solid	DI Leach	
880-40156-12	CS-12 0.5-1	Soluble	Solid	DI Leach	
880-40156-13	CS-13 0.5-1	Soluble	Solid	DI Leach	
880-40156-14	CS-14 0.5-1	Soluble	Solid	DI Leach	
880-40156-15	CS-15 0.5-1	Soluble	Solid	DI Leach	
880-40156-16	CS-16 0.5-1	Soluble	Solid	DI Leach	
880-40156-17	CS-17 0.5-1	Soluble	Solid	DI Leach	
880-40156-18	CS-18 0.5-1	Soluble	Solid	DI Leach	
880-40156-19	CS-19 0.5-1	Soluble	Solid	DI Leach	
880-40156-20	CS-20 0.5-1	Soluble	Solid	DI Leach	
MB 880-74462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40156-1 MS	CS-1 0.5-1	Soluble	Solid	DI Leach	
880-40156-1 MSD	CS-1 0.5-1	Soluble	Solid	DI Leach	
880-40156-11 MS	CS-11 0.5-1	Soluble	Solid	DI Leach	
880-40156-11 MSD	CS-11 0.5-1	Soluble	Solid	DI Leach	

Analysis Batch: 74502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-21	CS-21 0.5-1	Soluble	Solid	300.0	74425
880-40156-22	CS-22 0.5-1	Soluble	Solid	300.0	74425
880-40156-23	CS-23 0.5-1	Soluble	Solid	300.0	74425
880-40156-24	CS-24 0.5-1	Soluble	Solid	300.0	74425
880-40156-25	CS-25 0.5-1	Soluble	Solid	300.0	74425
MB 880-74425/1-A	Method Blank	Soluble	Solid	300.0	74425
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	300.0	74425
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74425
890-6286-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	74425
890-6286-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	74425

Analysis Batch: 74503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-1	CS-1 0.5-1	Soluble	Solid	300.0	74462
880-40156-2	CS-2 0.5-1	Soluble	Solid	300.0	74462
880-40156-3	CS-3 0.5-1	Soluble	Solid	300.0	74462

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

HPLC/IC (Continued)**Analysis Batch: 74503 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40156-4	CS-4 0.5-1	Soluble	Solid	300.0	74462
880-40156-5	CS-5 0.5-1	Soluble	Solid	300.0	74462
880-40156-6	CS-6 0.5-1	Soluble	Solid	300.0	74462
880-40156-7	CS-7 0.5-1	Soluble	Solid	300.0	74462
880-40156-8	CS-8 0.5-1	Soluble	Solid	300.0	74462
880-40156-9	CS-9 0.5-1	Soluble	Solid	300.0	74462
880-40156-10	CS-10 0.5-1	Soluble	Solid	300.0	74462
880-40156-11	CS-11 0.5-1	Soluble	Solid	300.0	74462
880-40156-12	CS-12 0.5-1	Soluble	Solid	300.0	74462
880-40156-13	CS-13 0.5-1	Soluble	Solid	300.0	74462
880-40156-14	CS-14 0.5-1	Soluble	Solid	300.0	74462
880-40156-15	CS-15 0.5-1	Soluble	Solid	300.0	74462
880-40156-16	CS-16 0.5-1	Soluble	Solid	300.0	74462
880-40156-17	CS-17 0.5-1	Soluble	Solid	300.0	74462
880-40156-18	CS-18 0.5-1	Soluble	Solid	300.0	74462
880-40156-19	CS-19 0.5-1	Soluble	Solid	300.0	74462
880-40156-20	CS-20 0.5-1	Soluble	Solid	300.0	74462
MB 880-74462/1-A	Method Blank	Soluble	Solid	300.0	74462
LCS 880-74462/2-A	Lab Control Sample	Soluble	Solid	300.0	74462
LCSD 880-74462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74462
880-40156-1 MS	CS-1 0.5-1	Soluble	Solid	300.0	74462
880-40156-1 MSD	CS-1 0.5-1	Soluble	Solid	300.0	74462
880-40156-11 MS	CS-11 0.5-1	Soluble	Solid	300.0	74462
880-40156-11 MSD	CS-11 0.5-1	Soluble	Solid	300.0	74462

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-1 0.5-1**Lab Sample ID: 880-40156-1**

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 03:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 03:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 20:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 20:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 18:42	CH	EET MID

Client Sample ID: CS-2 0.5-1**Lab Sample ID: 880-40156-2**

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 03:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 03:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 21:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 21:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 18:58	CH	EET MID

Client Sample ID: CS-3 0.5-1**Lab Sample ID: 880-40156-3**

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 04:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 04:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 21:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:04	CH	EET MID

Client Sample ID: CS-4 0.5-1**Lab Sample ID: 880-40156-4**

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 04:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 04:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-4 0.5-1**Lab Sample ID: 880-40156-4**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

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			74674	03/01/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:09	CH	EET MID

Client Sample ID: CS-5 0.5-1**Lab Sample ID: 880-40156-5**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 05:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 05:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 22:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:15	CH	EET MID

Client Sample ID: CS-6 0.5-1**Lab Sample ID: 880-40156-6**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 05:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 22:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 22:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:31	CH	EET MID

Client Sample ID: CS-7 0.5-1**Lab Sample ID: 880-40156-7**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 05:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 05:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 23:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-7 0.5-1**Lab Sample ID: 880-40156-7**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

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	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		5			74503	03/01/24 19:37	CH	EET MID

Client Sample ID: CS-8 0.5-1**Lab Sample ID: 880-40156-8**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 06:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 06:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 23:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:42	CH	EET MID

Client Sample ID: CS-9 0.5-1**Lab Sample ID: 880-40156-9**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 06:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 06:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 23:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 23:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:48	CH	EET MID

Client Sample ID: CS-10 0.5-1**Lab Sample ID: 880-40156-10**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74465	03/01/24 11:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74456	03/02/24 07:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 07:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 00:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 00:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 19:53	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-11 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74521	03/02/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 01:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 01:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		5			74503	03/01/24 19:59	CH	EET MID

Client Sample ID: CS-12 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74521	03/02/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 14:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 01:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 01:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:16	CH	EET MID

Client Sample ID: CS-13 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74521	03/02/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 01:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 01:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:21	CH	EET MID

Client Sample ID: CS-14 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 14:46	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-14 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74674	03/02/24 02:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 02:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:38	CH	EET MID

Client Sample ID: CS-15 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 15:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 02:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 02:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:43	CH	EET MID

Client Sample ID: CS-16 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 02:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 02:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:49	CH	EET MID

Client Sample ID: CS-17 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 15:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 03:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 03:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-17 0.5-1**Lab Sample ID: 880-40156-17**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 20:54	CH	EET MID

Client Sample ID: CS-18 0.5-1**Lab Sample ID: 880-40156-18**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 16:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 16:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 03:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 03:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 21:00	CH	EET MID

Client Sample ID: CS-19 0.5-1**Lab Sample ID: 880-40156-19**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 16:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 16:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 04:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 04:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		5			74503	03/01/24 21:05	CH	EET MID

Client Sample ID: CS-20 0.5-1**Lab Sample ID: 880-40156-20**

Matrix: Solid

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74521	03/02/24 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/03/24 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/03/24 16:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/02/24 04:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74493	03/01/24 13:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/02/24 04:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74462	03/01/24 09:55	CH	EET MID
Soluble	Analysis	300.0		1			74503	03/01/24 21:11	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-21 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74466	03/01/24 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74453	03/01/24 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/01/24 23:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 16:01	CH	EET MID

Client Sample ID: CS-22 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74466	03/01/24 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74453	03/01/24 23:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/01/24 23:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 22:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 16:06	CH	EET MID

Client Sample ID: CS-23 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74466	03/01/24 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74453	03/02/24 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 22:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 22:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 16:23	CH	EET MID

Client Sample ID: CS-24 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74466	03/01/24 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74453	03/02/24 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 00:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Client Sample ID: CS-24 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74674	03/01/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 16:29	CH	EET MID

Client Sample ID: CS-25 0.5-1

Date Collected: 02/29/24 00:00

Date Received: 02/29/24 16:40

Lab Sample ID: 880-40156-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74466	03/01/24 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74453	03/02/24 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74708	03/02/24 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			74674	03/01/24 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 23:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 16:34	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-40156-1
SDG: Lea Co.

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Eurofins Midland

Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-40156-1
 SDG: Lea Co.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
880-40156-1	CS-1 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	1
880-40156-2	CS-2 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	2
880-40156-3	CS-3 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	3
880-40156-4	CS-4 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	4
880-40156-5	CS-5 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	5
880-40156-6	CS-6 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	6
880-40156-7	CS-7 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	7
880-40156-8	CS-8 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	8
880-40156-9	CS-9 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	9
880-40156-10	CS-10 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	10
880-40156-11	CS-11 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	11
880-40156-12	CS-12 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	12
880-40156-13	CS-13 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	13
880-40156-14	CS-14 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	14
880-40156-15	CS-15 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-16	CS-16 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-17	CS-17 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-18	CS-18 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-19	CS-19 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-20	CS-20 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-21	CS-21 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-22	CS-22 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-23	CS-23 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-24	CS-24 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	
880-40156-25	CS-25 0.5-1	Solid	02/29/24 00:00	02/29/24 16:40	0.5-1	

europa eurofins | eurofins customer testing

MONTGOMERY 105

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) 784-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

880-40156 Chain of Custody																																	
Project Manager	Ellie Pierce	Mason Jones	Bill to (if different)	ESRR																													
Company Name	Earth Systems R&R	Company Name																															
Address	5114 West County Road 128	Address																															
City, State ZIP	Midland Texas 79706	City, State ZIP																															
Phone	432-888-5553	Email	epierce@earthsyss.net																														
ANALYSIS REQUEST																																	
Project Name	Cheddar #9		Turn Around	Pres. Code																													
Project Number	2023		<input type="checkbox"/> Routine	Rush																													
Project Location	Leex Co.		Due Date	7/4 hrs.																													
Sampler's Name	Elli S. P.		TAT starts the day received by the lab if received by 4:30pm																														
PO#:			Samples Received Intact Yes (No) Thermometer ID No																														
SAMPLE RECEIPT		Temp/Blank	Yes (No)	Wet Ice																													
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	# of Comp	Cont	Comments																									
CS-1	0.5-1	5/27/24	0.5-1 G	1	X	X	X																										
CS-2	0.5-1				X	X	X																										
CS-3	0.5-1				X	X	X																										
CS-4	0.5-1				X	X	X																										
CS-5	0.5-1				X	X	X																										
CS-6	0.5-1				X	X	X																										
CS-7	0.5-1				X	X	X																										
CS-8	0.5-1				X	X	X																										
CS-9	0.5-1				X	X	X																										
CS-10	0.5-1	5/29/24	0.5-1 G	1	X	X	X																										
Total	200.7 / 6010	200.8 / 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	SiO ₂	Na	Sr	Tl	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 Tl U Hg 1631 / 2451 / 7470 / 7471																																
Notice: 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																									
<i>[Signature]</i>	<i>[Signature]</i>		2/29/24	<i>[Signature]</i>		<i>[Signature]</i>		2/29/24																									
								6																									

Revised Date 08/25/2020 Rev 2020.2

1

Released to Imaging: 11/26/2024 10:23:13 AM

Page 59 of 62

3/8/2024

eurofins

Environmental testing

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

Revised Date: 08/25/2020 Rev 2020.2

Released to Imaging: 11/26/2024 10:23:13 AM

Page 60 of 62

3/8/2024

Chain of Custody

eurofins Environmental Testing
Yercaud

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

Work Order No: Loc: 880 40156

Project Manager	Ellis Pierce Mason Jones	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	5114 West County Road 128	Address	
City, State ZIP	Midland Texas 79706	City, State ZIP	
Phone.	432-888-5553	Email	epierce@earthsrvs.net

Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Ph Mn Ni Se Ag Ti II Hn 1631 / 245.1 / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xencor, 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 \$65.00 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) _____ Relinquished by (Signature) _____ Received by (Signature) _____

Received by (Signature)

卷之三

4

卷之三

6

卷之三

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-40156-1

SDG Number: Lea Co.

Login Number: 40156**List Number: 1****Creator: Rodriguez, Leticia****List Source: Eurofins Midland**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mason Jones
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 7/1/2024 4:01:54 PM

JOB DESCRIPTION

Cheddar RP
Lea, Co

JOB NUMBER

880-45381-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

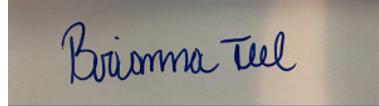
Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/1/2024 4:01:54 PM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Laboratory Job ID: 880-45381-1
SDG: Lea, Co

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Case Narrative

Client: Earth Systems Response and Restoration
 Project: Cheddar RP

Job ID: 880-45381-1

Job ID: 880-45381-1**Eurofins Midland**

Job Narrative 880-45381-1

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

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

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

Receipt

The samples were received on 6/28/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.2°C.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84451 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported. The associated sample is impacted: (CCV 880-84451/33).

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-84468 and analytical batch 880-84451 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84451 recovered above the upper control limit for Ethylbenzene. 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 880-84451/64).

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 880-84474 and analytical batch 880-84435 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84474 and analytical batch 880-84435 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84470 and analytical batch 880-84522 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.

NSW-1 (880-45381-1), SSW-1 (880-45381-2), WSW-1 (880-45381-3), ESW-1 (880-45381-4), (880-45380-A-1-A), (880-45380-A-1-B MS) and (880-45380-A-1-C MSD)

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: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Client Sample ID: NSW-1

Date Collected: 06/27/24 13:00
 Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/24 10:07	06/29/24 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/28/24 10:07	06/29/24 05:42	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/28/24 10:07	06/29/24 05:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/29/24 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.0		49.9		mg/Kg			06/28/24 20:36	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	<49.9	U	49.9		mg/Kg		06/28/24 10:47	06/28/24 20:36	1
Diesel Range Organics (Over C10-C28)	53.0	F1	49.9		mg/Kg		06/28/24 10:47	06/28/24 20:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/24 10:47	06/28/24 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/28/24 10:47	06/28/24 20:36	1
o-Terphenyl	89		70 - 130				06/28/24 10:47	06/28/24 20:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	458		4.97		mg/Kg			06/29/24 00:32	1

Client Sample ID: SSW-1

Date Collected: 06/27/24 13:05
 Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/24 10:07	06/29/24 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/28/24 10:07	06/29/24 06:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/28/24 10:07	06/29/24 06:03	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-45381-1
SDG: Lea, Co

Client Sample ID: SSW-1

Date Collected: 06/27/24 13:05
Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/24 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		49.8		mg/Kg			06/28/24 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg			06/28/24 10:47	06/28/24 21:38
Diesel Range Organics (Over C10-C28)	107		49.8		mg/Kg		06/28/24 10:47	06/28/24 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/24 10:47	06/28/24 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				06/28/24 10:47	06/28/24 21:38	1
<i>o</i> -Terphenyl	87		70 - 130				06/28/24 10:47	06/28/24 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		4.96		mg/Kg			06/29/24 00:38	1

Client Sample ID: WSW-1

Date Collected: 06/27/24 13:10
Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
<i>o</i> -Xylene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/24 10:07	06/29/24 06:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/28/24 10:07	06/29/24 06:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/28/24 10:07	06/29/24 06:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/24 06:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	223		50.0		mg/Kg			06/28/24 21:59	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	<50.0	U	50.0		mg/Kg		06/28/24 10:47	06/28/24 21:59	1
Diesel Range Organics (Over C10-C28)	223		50.0		mg/Kg		06/28/24 10:47	06/28/24 21:59	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Client Sample ID: WSW-1

Date Collected: 06/27/24 13:10
 Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-3

Matrix: Solid

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)	<50.0	U	50.0		mg/Kg	D	06/28/24 10:47	06/28/24 21:59	1
Surrogate									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
77			70 - 130				06/28/24 10:47	06/28/24 21:59	1
o-Terphenyl	76		70 - 130				06/28/24 10:47	06/28/24 21:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	552		5.00		mg/Kg	D		06/29/24 00:44	1

Client Sample ID: ESW-1

Date Collected: 06/27/24 13:15
 Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg	D	06/28/24 10:40	06/29/24 05:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:40	06/29/24 05:26	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		06/28/24 10:40	06/29/24 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/28/24 10:40	06/29/24 05:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/24 10:40	06/29/24 05:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/24 10:40	06/29/24 05:26	1
Surrogate									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
108			70 - 130				06/28/24 10:40	06/29/24 05:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/28/24 10:40	06/29/24 05:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	D		06/29/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg	D		06/28/24 22:20	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	<49.9	U	49.9		mg/Kg	D	06/28/24 10:47	06/28/24 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/24 10:47	06/28/24 22:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/24 10:47	06/28/24 22:20	1
Surrogate									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
83			70 - 130				06/28/24 10:47	06/28/24 22:20	1
o-Terphenyl	84		70 - 130				06/28/24 10:47	06/28/24 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.02		mg/Kg	D		06/29/24 00:50	1

Eurofins Midland

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-45369-A-21-E MS	Matrix Spike	103	92
880-45369-A-21-F MSD	Matrix Spike Duplicate	103	92
880-45381-1	NSW-1	108	90
880-45381-2	SSW-1	108	90
880-45381-3	WSW-1	109	91
880-45381-4	ESW-1	108	85
890-6855-A-21-B MS	Matrix Spike	120	91
890-6855-A-21-C MSD	Matrix Spike Duplicate	98	101
LCS 880-84467/1-A	Lab Control Sample	107	93
LCS 880-84468/1-A	Lab Control Sample	100	105
LCSD 880-84467/2-A	Lab Control Sample Dup	101	92
LCSD 880-84468/2-A	Lab Control Sample Dup	111	105
MB 880-84356/5-A	Method Blank	101	84
MB 880-84412/5-A	Method Blank	78	87
MB 880-84467/5-A	Method Blank	103	85
MB 880-84468/5-A	Method Blank	72	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-45381-1	NSW-1	89	89
880-45381-1 MS	NSW-1	87	78
880-45381-1 MSD	NSW-1	87	78
880-45381-2	SSW-1	88	87
880-45381-3	WSW-1	77	76
880-45381-4	ESW-1	83	84
LCS 880-84474/2-A	Lab Control Sample	122	113
LCSD 880-84474/3-A	Lab Control Sample Dup	122	117
MB 880-84474/1-A	Method Blank	145 S1+	151 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-84356/5-A****Matrix: Solid****Analysis Batch: 84448**

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	06/27/24 11:29	06/28/24 11:20		1
Toluene	<0.00200	U	0.00200		mg/Kg	06/27/24 11:29	06/28/24 11:20		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	06/27/24 11:29	06/28/24 11:20		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	06/27/24 11:29	06/28/24 11:20		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	06/27/24 11:29	06/28/24 11:20		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	06/27/24 11:29	06/28/24 11:20		1

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 84356****Lab Sample ID: MB 880-84412/5-A****Matrix: Solid****Analysis Batch: 84451**

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	06/27/24 16:42	06/28/24 11:23		1
Toluene	<0.00200	U	0.00200		mg/Kg	06/27/24 16:42	06/28/24 11:23		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	06/27/24 16:42	06/28/24 11:23		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	06/27/24 16:42	06/28/24 11:23		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	06/27/24 16:42	06/28/24 11:23		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	06/27/24 16:42	06/28/24 11:23		1

Surrogate

Surrogate	MB	MB					
	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		70 - 130	06/27/24 11:29	06/28/24 11:20		1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/27/24 11:29	06/28/24 11:20		1

Lab Sample ID: MB 880-84467/5-A**Matrix: Solid****Analysis Batch: 84448**

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:07	06/28/24 22:20		1
Toluene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:07	06/28/24 22:20		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:07	06/28/24 22:20		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	06/28/24 10:07	06/28/24 22:20		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:07	06/28/24 22:20		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	06/28/24 10:07	06/28/24 22:20		1

Surrogate

Surrogate	MB	MB					
	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	78		70 - 130	06/28/24 10:07	06/28/24 22:20		1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/28/24 10:07	06/28/24 22:20		1

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCS 880-84467/1-A****Matrix: Solid****Analysis Batch: 84448****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 84467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.09880		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09649		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1063		mg/Kg		106	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		70 - 130				
1,4-Difluorobenzene (Surr)	93		70 - 130				

Lab Sample ID: LCSD 880-84467/2-A**Matrix: Solid****Analysis Batch: 84448****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 84467**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1025		mg/Kg		103	70 - 130	2	35
Toluene	0.100	0.09606		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09293		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1000		mg/Kg		100	70 - 130	6	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Lab Sample ID: 880-45369-A-21-E MS**Matrix: Solid****Analysis Batch: 84448****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 84467**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09860		mg/Kg		99	70 - 130
Toluene	<0.00199	U	0.0996	0.09181		mg/Kg		92	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08743		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1886		mg/Kg		95	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09428		mg/Kg		95	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Lab Sample ID: 880-45369-A-21-F MSD**Matrix: Solid****Analysis Batch: 84448****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 84467**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09920		mg/Kg		98	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.09230		mg/Kg		92	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.08755		mg/Kg		87	70 - 130	0	35

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-45381-1
SDG: Lea, Co

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

Lab Sample ID: 880-45369-A-21-F MSD

Matrix: Solid

Analysis Batch: 84448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1883		mg/Kg	93	70 - 130	0
o-Xylene	<0.00199	U	0.101	0.09449		mg/Kg	94	70 - 130	0
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 84467

Lab Sample ID: MB 880-84468/5-A

Matrix: Solid

Analysis Batch: 84451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
Toluene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	06/28/24 10:09	06/28/24 22:10		1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130				06/28/24 10:09	06/28/24 22:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/28/24 10:09	06/28/24 22:10	1

Lab Sample ID: LCS 880-84468/1-A

Matrix: Solid

Analysis Batch: 84451

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Benzene		0.100	0.1111		mg/Kg		111	70 - 130	
Toluene		0.100	0.1023		mg/Kg		102	70 - 130	
Ethylbenzene		0.100	0.1200		mg/Kg		120	70 - 130	
m-Xylene & p-Xylene		0.200	0.2246		mg/Kg		112	70 - 130	
o-Xylene		0.100	0.1048		mg/Kg		105	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: LCSD 880-84468/2-A

Matrix: Solid

Analysis Batch: 84451

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD
Benzene		0.100	0.1115		mg/Kg		112	70 - 130	0
Toluene		0.100	0.1072		mg/Kg		107	70 - 130	5
Ethylbenzene		0.100	0.1319	**	mg/Kg		132	70 - 130	9
m-Xylene & p-Xylene		0.200	0.2462		mg/Kg		123	70 - 130	9
o-Xylene		0.100	0.1156		mg/Kg		116	70 - 130	10

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84468

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

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

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)		111			70 - 130
1,4-Difluorobenzene (Surr)		105			70 - 130

Lab Sample ID: 890-6855-A-21-B MS**Matrix: Solid****Analysis Batch: 84451****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 84468**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00199	U	0.0996	0.09843		mg/Kg		99	70 - 130	
Toluene	<0.00199	U	0.0996	0.09677		mg/Kg		97	70 - 130	
Ethylbenzene	<0.00199	U *+	0.0996	0.1277		mg/Kg		128	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2290		mg/Kg		115	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.1087		mg/Kg		109	70 - 130	

Surrogate	MS	MS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130		
1,4-Difluorobenzene (Surr)	91		70 - 130		

Lab Sample ID: 890-6855-A-21-C MSD**Matrix: Solid****Analysis Batch: 84451****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 84468**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U	0.101	0.09307		mg/Kg		92	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.08590		mg/Kg		85	70 - 130	12	35
Ethylbenzene	<0.00199	U *+	0.101	0.09514		mg/Kg		94	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1713		mg/Kg		85	70 - 130	29	35
o-Xylene	<0.00199	U	0.101	0.08088		mg/Kg		80	70 - 130	29	35

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130		
1,4-Difluorobenzene (Surr)	101		70 - 130		

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-84474/1-A****Matrix: Solid****Analysis Batch: 84435****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 84474**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.0	U			50.0		mg/Kg		06/28/24 10:47	06/28/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U			50.0		mg/Kg		06/28/24 10:47	06/28/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U			50.0		mg/Kg		06/28/24 10:47	06/28/24 19:33	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			06/28/24 10:47	06/28/24 19:33	1
o-Terphenyl	151	S1+	70 - 130			06/28/24 10:47	06/28/24 19:33	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-84474/2-A****Matrix: Solid****Analysis Batch: 84435****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 84474**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.8		mg/Kg		95	70 - 130
Surrogate							
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
1-Chlorooctane	122		70 - 130				
o-Terphenyl	113		70 - 130				

Lab Sample ID: LCSD 880-84474/3-A**Matrix: Solid****Analysis Batch: 84435****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 84474**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.6		mg/Kg		95	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	938.2		mg/Kg		94	70 - 130	1	20
Surrogate									
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: 880-45381-1 MS**Matrix: Solid****Analysis Batch: 84435****Client Sample ID: NSW-1****Prep Type: Total/NA****Prep Batch: 84474**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	968.8		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	53.0	F1	999	534.1	F1	mg/Kg		48	70 - 130
Surrogate									
Surrogate	%Recovery	MS Qualifier	MS Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	78		70 - 130						

Lab Sample ID: 880-45381-1 MSD**Matrix: Solid****Analysis Batch: 84435****Client Sample ID: NSW-1****Prep Type: Total/NA****Prep Batch: 84474**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	988.4		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	53.0	F1	999	536.8	F1	mg/Kg		48	70 - 130	1	20
Surrogate											
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1-Chlorooctane	87		70 - 130								

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

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

Lab Sample ID: 880-45381-1 MSD

Matrix: Solid

Analysis Batch: 84435

Client Sample ID: NSW-1
 Prep Type: Total/NA
 Prep Batch: 84474

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
o-Terphenyl			78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84470/1-A

Matrix: Solid

Analysis Batch: 84522

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			<5.00	U	5.00		mg/Kg			06/28/24 23:21	1

Lab Sample ID: LCS 880-84470/2-A

Matrix: Solid

Analysis Batch: 84522

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec	Limits
Chloride				250		232.9		93	90 - 110	

Lab Sample ID: LCSD 880-84470/3-A

Matrix: Solid

Analysis Batch: 84522

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

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
Chloride				250		233.5		93	90 - 110	0	20

Lab Sample ID: 880-45380-A-1-B MS

Matrix: Solid

Analysis Batch: 84522

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
Chloride				6522		F1		mg/Kg		75	90 - 110

Lab Sample ID: 880-45380-A-1-C MSD

Matrix: Solid

Analysis Batch: 84522

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD	Result	Qualifier	Unit	D	%Rec	RPD	Limit
Chloride				6426		F1		mg/Kg		72	90 - 110	1

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-45381-1
SDG: Lea, Co

GC VOA

Prep Batch: 84356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84356/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 84412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84412/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 84448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	8021B	84467
880-45381-2	SSW-1	Total/NA	Solid	8021B	84467
880-45381-3	WSW-1	Total/NA	Solid	8021B	84467
MB 880-84356/5-A	Method Blank	Total/NA	Solid	8021B	84356
MB 880-84467/5-A	Method Blank	Total/NA	Solid	8021B	84467
LCS 880-84467/1-A	Lab Control Sample	Total/NA	Solid	8021B	84467
LCSD 880-84467/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84467
880-45369-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	84467
880-45369-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84467

Analysis Batch: 84451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-4	ESW-1	Total/NA	Solid	8021B	84468
MB 880-84412/5-A	Method Blank	Total/NA	Solid	8021B	84412
MB 880-84468/5-A	Method Blank	Total/NA	Solid	8021B	84468
LCS 880-84468/1-A	Lab Control Sample	Total/NA	Solid	8021B	84468
LCSD 880-84468/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84468
890-6855-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	84468
890-6855-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84468

Prep Batch: 84467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	5035	
880-45381-2	SSW-1	Total/NA	Solid	5035	
880-45381-3	WSW-1	Total/NA	Solid	5035	
MB 880-84467/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84467/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84467/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45369-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-45369-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 84468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-4	ESW-1	Total/NA	Solid	5035	
MB 880-84468/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84468/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84468/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6855-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6855-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-45381-1
SDG: Lea, Co

GC VOA (Continued)

Analysis Batch: 84680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-2	SSW-1	Total/NA	Solid	Total BTEX	
880-45381-3	WSW-1	Total/NA	Solid	Total BTEX	
880-45381-4	ESW-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 84435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	8015B NM	84474
880-45381-2	SSW-1	Total/NA	Solid	8015B NM	84474
880-45381-3	WSW-1	Total/NA	Solid	8015B NM	84474
880-45381-4	ESW-1	Total/NA	Solid	8015B NM	84474
MB 880-84474/1-A	Method Blank	Total/NA	Solid	8015B NM	84474
LCS 880-84474/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84474
LCSD 880-84474/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84474
880-45381-1 MS	NSW-1	Total/NA	Solid	8015B NM	84474
880-45381-1 MSD	NSW-1	Total/NA	Solid	8015B NM	84474

Prep Batch: 84474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	8015NM Prep	
880-45381-2	SSW-1	Total/NA	Solid	8015NM Prep	
880-45381-3	WSW-1	Total/NA	Solid	8015NM Prep	
880-45381-4	ESW-1	Total/NA	Solid	8015NM Prep	
MB 880-84474/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84474/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84474/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45381-1 MS	NSW-1	Total/NA	Solid	8015NM Prep	
880-45381-1 MSD	NSW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Total/NA	Solid	8015 NM	
880-45381-2	SSW-1	Total/NA	Solid	8015 NM	
880-45381-3	WSW-1	Total/NA	Solid	8015 NM	
880-45381-4	ESW-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Soluble	Solid	DI Leach	
880-45381-2	SSW-1	Soluble	Solid	DI Leach	
880-45381-3	WSW-1	Soluble	Solid	DI Leach	
880-45381-4	ESW-1	Soluble	Solid	DI Leach	
MB 880-84470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45380-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45380-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

HPLC/IC**Analysis Batch: 84522**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45381-1	NSW-1	Soluble	Solid	300.0	84470
880-45381-2	SSW-1	Soluble	Solid	300.0	84470
880-45381-3	WSW-1	Soluble	Solid	300.0	84470
880-45381-4	ESW-1	Soluble	Solid	300.0	84470
MB 880-84470/1-A	Method Blank	Soluble	Solid	300.0	84470
LCS 880-84470/2-A	Lab Control Sample	Soluble	Solid	300.0	84470
LCSD 880-84470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84470
880-45380-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	84470
880-45380-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84470

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Client Sample ID: NSW-1

Date Collected: 06/27/24 13:00

Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	84467	06/28/24 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84680	06/29/24 05:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			84764	06/28/24 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84474	06/28/24 10:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84435	06/28/24 20:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84470	06/28/24 10:32	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84522	06/29/24 00:32	SMC	EET MID

Client Sample ID: SSW-1

Date Collected: 06/27/24 13:05

Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	84467	06/28/24 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84680	06/29/24 06:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			84764	06/28/24 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84474	06/28/24 10:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84435	06/28/24 21:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84470	06/28/24 10:32	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84522	06/29/24 00:38	SMC	EET MID

Client Sample ID: WSW-1

Date Collected: 06/27/24 13:10

Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	84467	06/28/24 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84680	06/29/24 06:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			84764	06/28/24 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84474	06/28/24 10:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84435	06/28/24 21:59	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	84470	06/28/24 10:32	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84522	06/29/24 00:44	SMC	EET MID

Client Sample ID: ESW-1

Date Collected: 06/27/24 13:15

Date Received: 06/28/24 09:30

Lab Sample ID: 880-45381-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	84468	06/28/24 10:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/29/24 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84680	06/29/24 05:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Client Sample ID: ESW-1**Date Collected: 06/27/24 13:15****Date Received: 06/28/24 09:30****Lab Sample ID: 880-45381-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			84764	06/28/24 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84474	06/28/24 10:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84435	06/28/24 22:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84470	06/28/24 10:32	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84522	06/29/24 00:50	SMC	EET MID

Laboratory References:

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

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	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: Cheddar RP

Job ID: 880-45381-1
 SDG: Lea, Co

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Cheddar RP

Job ID: 880-45381-1
SDG: Lea, Co

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45381-1	NSW-1	Solid	06/27/24 13:00	06/28/24 09:30
880-45381-2	SSW-1	Solid	06/27/24 13:05	06/28/24 09:30
880-45381-3	WSW-1	Solid	06/27/24 13:10	06/28/24 09:30
880-45381-4	ESW-1	Solid	06/27/24 13:15	06/28/24 09:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-45381-1
SDG Number: Lea, Co**Login Number: 45381****List Source: Eurofins Midland****List Number: 1****Creator: Vasquez, Julisa**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		

Kristopher Williams

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 332023

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Thursday, April 11, 2024 2:52 PM

To: Adrian Urquidi <adrian.urquidi@goodnightmidstream.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 332023

[EXTERNAL EMAIL NOTIFICATION] This message was received from outside the Goodnight Midstream Organization, do not click links or attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Adrian Urduidi for GOODNIGHT MIDSTREAM PERMIAN, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2404035912, for the following reasons:

- **Remediation closure denied. In the Site Characterization section of closure report, it states: "There is an identified soil boring drilled within 0.25 miles east of the site in May 2023 with no indication of groundwater encountered within 80 ft. of the surface." This information seems to refer to C-4742-POD1 which is in "pending" status with NM OSE. Per 19.15.29.11(A)2 NMAC, the soil boring log needs to be provided for this information, or the release would need to meet the strictest Table 1 Closure Criteria due to no wells being located within .5 miles of the site that have data less than 25 years old. When the Remediation Plan questions were answered with your submittal, you said the estimated surface area that will be remediated is 27,400 ft² which would require you to collect 137 confirmation samples. Based on Figure 4 provided, the approximate sampling surface area is 8,800 ft² which would require you to collect at least 36 confirmation samples. Only 25 samples were collected.**
- **Per 19.15.29.12(D) NMAC, confirmation soil samples must consist of five-point composite samples from the side wall and base and individual grab samples from any wet or discolored areas, representing a surface area of no more than 200 ft² unless otherwise approved. Also under the Remediation Plan questions, you answered "0" to "What is the estimated surface area (in square feet) that will be reclaimed" and "What is the estimated volume (in cubic yards) that will be reclaimed." Even though the release occurred on pad, the release area will need to be reclaimed and meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment. These answers should be updated to reflect this. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1)(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D(1)(a) NMAC.**
- **Submit updated closure report by 5/11/24.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 332023.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 760735
File Nbr: C 04839

May. 29, 2024

ADRIAN URQUIDI
GOODNIGHT MIDSTREAM PERMIAN LL
11612 TOWER ROAD
MIDLAND, TX 79707

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

Enclosure

explore



NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

- | | | |
|---|--|--|
| Purpose: | <input type="checkbox"/> Pollution Control And/Or Recovery | <input type="checkbox"/> Ground Source Heat Pump |
| <input type="checkbox"/> Exploratory Well*(Pump test) | <input type="checkbox"/> Construction Site/Public Works Dewatering | <input type="checkbox"/> Other(Describe): |
| <input type="checkbox"/> Monitoring Well | <input type="checkbox"/> Mine Dewatering | |

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 5/13/2024	Requested End Date: 6/13/2024
---	-------------------------------

Plugging Plan of Operations Submitted? Yes No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

1. APPLICANT(S)

Name: Goodnight Midstream Permian, LLC	Name:
Contact or Agent: Adrian Urquidi	check here if Agent <input type="checkbox"/>
Mailing Address: 11612 Tower Road	Mailing Address:
City: Midland	City:
State: TX	Zip Code: 79707
Phone: Phone (Work): 432-530-9517	Phone: Phone (Work):
E-mail (optional): adrian.urquidi@goodnightmidstream.com	E-mail (optional):

DRILLING PERMIT FORM WR-07 02/29/2024 AND UP

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 02/29/2024

File No.: C-04839	Trn. No.: 760735	Receipt No.: C-51168
Trans Description (optional):		
Sub-Basin: CUB	PCW/LOG Due Date: 5/29/25	



2024 MAY 15 AM 11:50

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

<input type="checkbox"/> NM State Plane (NAD83) (Feet)	<input type="checkbox"/> UTM (NAD83) (Meters)	<input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second)	
<input type="checkbox"/> NM West Zone	<input type="checkbox"/> Zone 12N		
<input type="checkbox"/> NM East Zone	<input type="checkbox"/> Zone 13N		
<input type="checkbox"/> NM Central Zone			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-04839 P0D1	-103.687718	32.445802	UL-M, Sec. 28, T21S, R32E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: Yes No If yes, how many _____

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: BLM

Well Information: **NOTE:** If more than one (1) well needs to be described, provide attachment. Attached? Yes No
If yes, how many _____

Approximate depth of well (feet): 55 Outside diameter of well casing (inches): N/A

Driller Name: Hungry Horse, LLC Driller License Number: 1755

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The bore will be drilled according to NMOCD, as no water wells exist within a half mile of the release site. As per NMOCD, drill 55' bore, wait 72 hours, and gauge for presence of water. If water is present driller will notify NMOSE and NMOCD for guidance on possibly converting the bore to a monitoring well. If no water is present the bore will be plugged.

2025 RELEASE UNDER E.O. 14176
11/14/2024 10:11:03 AM

2025 RELEASE UNDER E.O. 14176
11/14/2024 10:11:03 AM

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 02/29/2024

File No.: C-04839 P0D1

Trn No.: 760735

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory*: Is proposed well a future public water supply well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable. Monitoring*: <input type="checkbox"/> Include the reason for the monitoring well, and. <input type="checkbox"/> The duration of the planned monitoring	Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation. <input type="checkbox"/> The estimated duration of the operation. <input type="checkbox"/> The maximum amount of water to be diverted. <input type="checkbox"/> A description of the need for the dewatering operation, and. <input type="checkbox"/> A description of how the diverted water will be disposed of.	Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
--	--	---	---

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Adrian Urquidi

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

Adrian Urquidi

Digitally signed by Adrian Urquidi
Date: 2024.05.08 10:39:35 05'00'

Adrian Urquidi

Digitally signed by Adrian Urquidi
Date: 2024 05 08 10:40 25 -05'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved

partially approved

denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 29th day of May 20 24, for the State Engineer,

MIKE A. HAMMAN, P.E.

State Engineer

By:
Signature

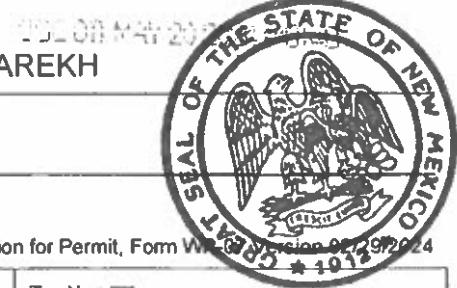
K. Parekh

Title:
Print

WATER RESOURCE MANAGER I

KASHYAP PAREKH

Print



FOR OSE INTERNAL USE

Application for Permit, Form W-001, Revision 001, 29/05/2024

File No. C-04839 POD1

Trn No. 760735

Page 3 of 3

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04839 POD1

File Number: C 04839

Trn Number: 760735

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04839 POD1

File Number: C 04839
Trn Number: 760735

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04839 POD1 must be completed and the Well Log filed on or before 05/29/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 05/20/2024 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 29 day of May A.D., 2024

Mike A. Hamman, P.E. , State Engineer

By: K. Parekh
KASHYAP PAREKH



Trn Desc: C 04839 POD1

File Number: C 04839
Trn Number: 760735

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – SANTA FE OFFICE

OFFICIAL RECEIPT NUMBER: 6 - 51168 DATE: 5/15/2024
 TOTAL: \$ 5.00 RECEIVED: Five & 00/00
 PAYOR: Hungry Horse, LLC ADDRESS: P.O. Box 1058 Hobbs, NM
 ZIP: 88241 RECEIVED BY: Romero

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

- 1. Change of Ownership of Water Right \$ 2.00
- 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00
- 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00
- 4. Application for Replacement 72-12-1 Well \$ 75.00
- 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
- 6. Application for Stock Well \$ 5.00

B. Surface Water Filing Fees

- 1. Change of Ownership of a Water Right \$ 5.00
- 2. Declaration of Water Right \$ 10.00
- 3. Amended Declaration \$ 25.00
- 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00
- 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$ 200.00
- 6. Application to Change Point of Diversion \$ 100.00
- 7. Application to Change Place and/or Purpose of Use \$ 100.00
- 8. Application to Appropriate \$ 25.00
- 9. Notice of Intent to Appropriate \$ 25.00
- 10. Application for Extension of Time \$ 50.00
- 11. Supplemental Well to a Surface Right \$ 100.00
- 12. Return Flow Credit \$ 100.00
- 13. Proof of Completion of Works \$ 25.00
- 14. Proof of Application of Water to Beneficial Use \$ 25.00
- 15. Water Development Plan \$ 100.00
- 16. Declaration of Livestock Water Impoundment \$ 10.00
- 17. Application for Livestock Water Impoundment \$ 10.00
- 18. Notice of Intent to Appropriate \$ 25.00

C. Well Driller Fees

- 1. Application for Well Driller's License \$ 50.00
- 2. Application for Renewal of Well Driller's License \$ 50.00
- 3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

- @ 0.25¢
- Maps(s)
- Map(s)

E. Certification

- \$ _____
- \$ _____

F. Other

- \$ _____
- \$ _____

G. Comments:

- 1. Application for Test, Expl. Observ. Well \$ 5.00
- 2. Application for Extension of Time \$ 25.00
- 3. Proof of Application to Beneficial Use \$ 25.00
- 4. Notice of Intent to Appropriate \$ 25.00

All fees are non-refundable.



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

May 29, 2024

Goodnight Midstream Permian, LLC
11612 Tower Road
Midland Tx 79707

RE: Well Plugging Plan of Operations for well no. C-4839-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

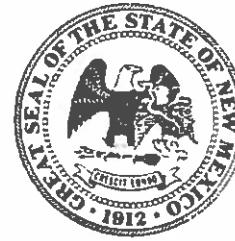
Sincerely,

A handwritten signature of Samantha Davis.

Samantha Davis
Water Resources Professional III



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/egmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmhwg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Q4539 Pool 1

Name of well owner: Goodnight Midstream Permian, LLC

Mailing address: 11612 Tower Road County: _____

City: Midland State: TX Zip code: 79707

Phone number: 432-530-9517 E-mail: adrian.urquidi@goodnightmidstream.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Hungry Horse, LLC

New Mexico Well Driller License No.: 1755 Expiration Date: 10/14/2025

IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 26 min, 44.89 sec
Longitude: 103 deg, 41 min, 15.78 sec, NAD 83

2) Reason(s) for plugging well(s):

No water present

Q4539 Pool 1 2024 and 2025

3) Was well used for any type of monitoring program? yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NO If yes, provide additional detail, including analytical results and/or laboratory report(s): N/A

5) Static water level: >100 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 55' feet

- 7) Inside diameter of innermost casing: N/A inches.
- 8) Casing material: N/A
- 9) The well was constructed with:
 an open-hole production interval, state the open interval: N/A
 a well screen or perforated pipe, state the screened interval(s): N/A
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:
N/A
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:
The bore will be plugged with native material to 10 feet bgs, then grouted to the surface.
- 2) Will well head be cut-off below land surface after plugging? N/A

DDC-DT-MAP-20-2024-0034D

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 2 bags
- 4) Type of Cement proposed: bentonite pellets
- 5) Proposed cement grout mix: N/A gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
 mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

72 hours after drilling, the well (32.445802, -103.687718) will be gauged for the presence of water. If water is present the NMOSE and NMOCD will be notified for guidance on possible conversion to monitor well. If no water is present the well will be plugged according to NMOSE Well Plugging Handbook, Appendix A, Permit Condition 6E. Within 20 days of well plugging, driller will submit Well Plugging Record WD-11 to NMOSE. The maximum period of time for completion of the operation will be 30 days.

VIII. SIGNATURE:

I, Adrian Urquidi, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Adrian Urquidi

Digitally signed by Adrian Urquidi
Date: 2024.05.08 10:50:30 -05'00'

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:



Approved subject to the attached conditions.

Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this

29th day of May 2024



Mike A. Hamman, P.E.

New Mexico State Engineer

By:

Samantha Davis

Water Resources Professional III

WD-08 Well Plugging Plan

Version: March 07, 2022

Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			<i>1 part cement</i>
Additive 1 percent by dry weight relative to cement			<i>2.5%</i>
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	10	0	
Bottom of proposed sealant or grout placement (ft bgl)	55	10	
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	
Proposed abandonment sealant (manufacturer and trade name)	native soil	bentonite	

QC'd on May 20 2024 at 11:59

11/14/2024 10:11:03 AM
TODAY 15
11/14/2024 15:59



**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL**

1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

Applicant has identified a well, listed below, to be plugged.
Hungry Horse LLC (WD-1755)
will perform the plugging.

Permittee: Goodnight midstream Permian, LLC
NMOSE Permit Number: C-4839-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4839-POD1	2 inch	55'	Unknown	32 26 44.89	103 41 15.78

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment of the 2.0 inch diameter (I.D.) casing is approximately 2 bags per well. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet below ground surface (b.g.s.).
3. Bentonite chips are the approved sealant. When bentonite chips are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
4. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.

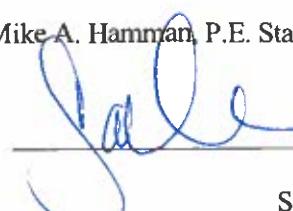
5. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
6. Wells that do not encounter a water bearing stratum shall be immediately plugged by filling the well with drill cuttings or clean native fill to within ten (10) feet of land surface and by plugging the remaining ten (10) feet of the well to land surface with a plug of a sealing material approved by the State Engineer.
7. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
8. NMOSE witnessing of the plugging of the non-artesian well will not be required.
9. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
10. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 29th day of May, 2024

Mike A. Hamman, P.E. State Engineer

By:


Samantha Davis
Water Resources Professional III



Re: [EXTERNAL] Earth Systems Soil Boring - Goodnight Cheddar RP

Taylor, Shelly J <sjtaylor@blm.gov>

Fri 4/19/2024 1:32 PM

To:Mason Jones <mjones@earthsyst.net>

Approval granted to install a borehole on the pad site only to determine depth to groundwater.

Respectfully,

Shelly J Taylor

Assistant Field Manager

Lands & Minerals - Acting

Bureau of Land Management
Pecos District/Roswell Field Office
2909 W 2nd St
Roswell, NM 88201

Direct 575.627.0250

Mobile 575.200.0614

sjtaylor@blm.gov



From: Mason Jones <mjones@earthsyst.net>

Sent: Friday, April 19, 2024 10:40 AM

To: Taylor, Shelly J <sjtaylor@blm.gov>

Subject: RE: [EXTERNAL] Earth Systems Soil Boring - Goodnight Cheddar RP

Company: Goodnight

Site name: Cheddar RP

Coordinates: 32.447083, -103.688556

Mason Jones | Operations Manager
5114 West C.R. 128 | Midland, Texas 79706
M 432-310-4945 | mjones@earthsyst.net



From: Taylor, Shelly J <sjtaylor@blm.gov>

Sent: Friday, April 19, 2024 11:33 AM

To: Mason Jones <mjones@earthsyst.net>

Subject: Re: [EXTERNAL] Earth Systems Soil Boring - Goodnight Cheddar RP

Need the site name please.

Respectfully,

Shelly J Taylor

Assistant Field Manager
Lands & Minerals - Acting

Bureau of Land Management
Pecos District/Roswell Field Office
2909 W 2nd St
Roswell, NM 88201

Direct 575.627.0250
Mobile 575.200.0614
sjtaylor@blm.gov



From: Mason Jones <mjones@earthsyst.net>
Sent: Friday, April 19, 2024 10:07 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Subject: [EXTERNAL] Earth Systems Soil Boring - Goodnight Cheddar RP

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Morning Shelly,

We are needing to install a 55 ft. deep soil boring to confirm that groundwater is >55ft. deep. The soil boring will be open for less than 72 hours before being backfilled and we are not expecting to encounter any groundwater. Additionally, the area for the soil boring is within an active O&G facility that is on a pad. If you agree no permit or additional permission is needed from the BLM, we will move forward with the soil boring.

Thank you for all your help.

Mason

Mason Jones | Operations Manager
5114 West C.R. 128 | Midland, Texas 79706
M 432-310-4945 | mjones@earthsyst.net



Kristopher Williams

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, June 24, 2024 8:26 AM
To: Kristopher Williams
Cc: Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Confirmation Sampling Notification: Cheddar RP - Incident ID: nAPP2404035912

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

Good morning Kris,

Due to the OCD Permitting connectivity issues of 6/20-6/21, a variance to the two business day notification for confirmation sampling is approved for NAPP2404035912 CHEDDAR NORTH HGB WATER LEG RELEASE for June 24, 2024. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kristopher Williams <kwilliams@earthsys.net>
Sent: Saturday, June 22, 2024 8:46 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Confirmation Sampling Notification: Cheddar RP - Incident ID: nAPP2404035912

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

Good Morning,

Due to the notification portal page not currently operating, I wanted to provide a written notification of confirmation sampling for the Cheddar RP location (Incident ID: nAPP2404035912).

We will be collecting four (4) additional sidewall samples, as requested by the NMOCD, on Monday June 24th at approx.. 12pm. The location is located at GPS coordinates 32.447083°, -103.688556°. If you have any questions, please contact me at the number below.

Respectfully,
Kris

Kris Williams, CHMM, REM

Principal / Texas Operations Manager

E: kwilliams@earthsy.net

P: 325-665-3604

W: earthsys.net



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 403236

QUESTIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2404035912
Incident Name	NAPP2404035912 CHEDDAR NORTH HGB WATER LEG RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	CHEDDAR NORTH HGB WATER LEG RELEASE
Date Release Discovered	02/09/2024
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	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Other Production Tank Produced Water Released: 10 BBL Recovered: 4 BBL Lost: 6 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Not answered.</i>

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	<i>Not answered.</i>

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: Adrian Urdudi Title: HSE Representative Email: adrian.urquidi@goodnightmidstream.com Date: 05/02/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

QUESTIONS, Page 3

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

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 51 and 75 (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	Greater than 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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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)	10600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	21500
GRO+DRO (EPA SW-846 Method 8015M)	17600
BTEX (EPA SW-846 Method 8021B or 8260B)	409
Benzene (EPA SW-846 Method 8021B or 8260B)	5.7
<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	02/28/2024
On what date will (or did) the final sampling or liner inspection occur	06/27/2024
On what date will (or was) the remediation complete(d)	06/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	27400
What is the estimated volume (in cubic yards) that will be reclaimed	2000
What is the estimated surface area (in square feet) that will be remediated	27400
What is the estimated volume (in cubic yards) that will be remediated	500
<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>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	SUNDANCE PARABO [fEEM0112334085]
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>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 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: Ralph Tijerina Title: Director of EH&S Email: rtijerina@goodnightmidstream.com Date: 11/14/2024
--	--

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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
--	----

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356848
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/27/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	27400
What was the total volume (cubic yards) remediated	500
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The site was remediated according to the site closure criteria and has been backfilled with clean, locally sourced material.

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

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

I hereby agree and sign off to the above statement	Name: Ralph Tijerina Title: Director of EH&S Email: rtijerina@goodnightmidstream.com Date: 11/14/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 403236

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report <small>Only answer the questions in this group if all reclamation steps have been completed.</small>	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 403236

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 403236
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/26/2024