

Amoco Federal 11 CTB New Mexico Oil Conservation Division (NMOCD) Incident ID No. nAPP2216547154

Prepared for: Chevron Mid-Continent Business Unit (MCBU)

Prepared by: AECOM Technical Services, Inc. 19219 Katy Freeway, Suite 100 Houston, TX 77094

April 29, 2024

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Prepared for:

Chevron Mid-Continent Business Unit (MCBU)

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- Appendix B NMWRRS Water Column / Average Depth to Water Report
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1. Introduction

On behalf of Chevron Mid-Continent Business Unit (MCBU), AECOM Technical Services, Inc. (AECOM) has prepared this *Revised Delineation Report and Remediation Plan* to describe soil sampling results and proposed remediation activities to address soil impacts associated with a produced water release that occurred at the Amoco Federal 11 Central Tank Battery (CTB) spill site in Eddy County, New Mexico (the "Site"). This report is a revised version of the previous report submitted to the New Mexico Oil Conservation Division (NMOCD), dated August 23, 2023, and provides additional sampling data and a revised remediation plan in order to address the application rejection and comments received from the NMOCD on March 8, 2024.

2. Background

The Site is located at Latitude 32.31808478° North, Longitude 104.05284149° West, in Eddy County, New Mexico (**Figure 1**).

On June 3, 2022, a release was discovered at the Site, which included approximately 1.6 barrels (bbls) of crude oil and 4.7 bbls of produced water. The release was reported to have occurred when a two-phase liquid sump became plugged and prevented flow, causing the vessel to overflow. One bbl of crude oil was reported to have been recovered from the release area.

As required by the NMOCD under 19.15.29 New Mexico Administrative Code (NMAC), Chevron's initial response to the releases included:

- Stopping the release at the source,
- Securing the impacted soil area to protect human health and the environment,
- Containing the released produced water, and
- Recovering one bbl of crude oil.

A Release Notification C-141 Form, dated June 14, 2022, was submitted to the NMOCD. The C-141 Form documents the responsible party, location of the release source, nature, and volume of the release, and initial response to the release. The NMOCD assigned Incident ID # nAPP2216547154 to the Site release. The original C-141 Form is provided in **Appendix A**.

It should be noted that the above reported release was considered a minor release (<25 bbls) with a relatively small footprint. Based on the chloride delineation sampling results and age of the well pad, it is evident that historical impacts have been encountered while attempting to delineate this minor release, as further described in the following sections.

3. Initial Site Assessment / Characterization

The findings from an initial desktop assessment/characterization of the Site are summarized below.

 Based on an online Water Column/Average Depth to Water Report from the New Mexico Water Rights Reporting System (NMWRRS), there are no wells located closer than 782 meters, or about

2,566 feet (ft), from the Site. The average depth to groundwater for the Site area is reported to be 33 feet below ground surface (ft bgs) and the minimum depth to groundwater is reported to be 10 ft bgs (for water wells located on the opposite side of the Pecos River located west of the Site). A copy of the Water Column/Average Depth to Water Report is provided as **Appendix B**. As described in Section 4, soil boring DB-11 was drilled to a depth of 29 ft bgs on February 8, 2023, and no groundwater was observed to that depth.

- There are no continuously flowing watercourses or other significant watercourses within 300 ft of the Site.
- The Site is not located within 200 ft of any lakebed, known sinkhole, or playa lake.
- The nearest occupied permanent residence, school, hospital, institution, or church is greater than 300 ft from the Site.
- There are no known springs or wells used for domestic or stock watering purposes within 500 ft of the Site.
- There are no known freshwater wells within 1,000 ft of the Site.
- The Site is not located within incorporated municipal boundaries or defined municipal freshwater well fields.

No wetlands are present within 300 ft of the Site.

- No subsurface mines are located beneath the Site.
- No karst geology features or other unstable areas are known to be located near the Site.
- The Site is not located within a 100-year floodplain. A Zone A flood area, associated with the Pecos River, is present along the western edge of the Site well pad approximately 100 ft west of the area impacted by the release. Federal Emergency Management Agency (FEMA) flood hazard maps are provided in **Appendix C**.
- Operations in the immediate vicinity of the Site are for oil and gas exploration, development, production, or storage only. No impacts to areas that are not associated with exploration, development, production, or storage are expected.

Figure 1 shows the location of the Site and surrounding area on a topographic map. Based on information obtained during the initial desktop assessment/characterization and the volume of produced water released and recovered, no impact to groundwater, surface water, springs, or other sources of fresh water is currently suspected.

4. Soil Delineation

On **August 23**, **2022**, initial soil assessment activities were conducted at the Site, which included drilling and sampling of ten hand auger borings (B-1 through B-10) to depths of 3 to 4 ft bgs. Soil samples were collected at 1-ft intervals from each of the borings and field-screened using a photoionization detector (PID) to measure volatile organic vapor concentrations. Soil samples were chosen for laboratory analysis from select borings and depth intervals based on field observations and screening results. The samples chosen for laboratory analysis were transferred to clean, laboratory-provided sample containers, labeled, and placed on ice in laboratory-provided coolers. Chain-of-custody forms were completed, and the samples were delivered to Eurofins Environment Testing (Eurofins) in Carlsbad, New Mexico.

The initial soil samples collected in August 2022 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015B, and chloride by EPA Method 300.0.

Based on the initial soil sampling analytical results, additional soil delineation sampling activities were conducted as described below.

- In **November 2022**, soil delineation samples were collected from ten borings (DB-1 through DB-10) that were drilled to depths ranging from 4 to 10 ft bgs using a combination of hand auger and direct-push drilling and sampling equipment. Soil samples from select borings and depth intervals were submitted for laboratory analysis of chloride and TPH using the methods described above.
- In February 2023, borings DB-11 through DB-19 were drilled using air rotary drilling equipment and soil samples were collected for additional horizontal and vertical delineation of chloride-impacted soil. The drilling and sampling activities included the following:
 - Boring DB-11 was drilled to 29 ft bgs using air rotary drilling equipment;
 - Borings DB-12 through DB-14 were drilled to 10 ft bgs using air rotary drilling equipment; and
 - Borings DB-15 through DB-19 were drilled to 5 ft bgs using air rotatory drilling equipment.
- In March 2023, hand auger borings DB-15A through DB-15C and DB-17A through DB-17C were drilled and sampled to depths of 1 to 2 ft bgs for horizontal delineation of elevated chloride concentrations in shallow soil.

As observed in soil boring DB-11, the soils underlying the Site are comprised of very fine sand and silt to a depth of about 3 ft bgs but extending to as deep as 5 to 7 ft bgs near the south-central portion of the pad. Caliche is present from as shallow as 1.5 and extending up to 10 ft bgs. The caliche is underlain by very fine sand to a depth of about 20 ft bgs. A second caliche layer is present from about 20 to 22 ft bgs, which is underlain by fine to medium sand with caliche lenses to the bottom of the borehole at a depth of 29 ft bgs. No groundwater was observed to a depth of 29 ft bgs in boring DB-11. At the conclusion of drilling and soil sampling activities, the boreholes were backfilled and sealed near the surface with bentonite chips (upper 3 to 5 ft).

Following completion of the initial and step-out sampling events described above, and due to the expanded footprint for chloride-impacted soil and repeated return trips for additional sampling, an initial report was prepared and submitted to the NMOCD on August 23, 2023, documenting activities to date and recommending a remediation plan in which additional delineation sampling would be conducted during excavation of impacted soils. Since this approach was not accepted by the NMOCD, additional step-out soil sampling for chloride delineation was completed as follows:

- On **April 17, 2024**, six additional horizontal step-out hand auger borings (DB-19A through 19C and DB-20A through 20C) were advanced to 1 to 2 ft bgs, at locations north and northeast of the previous sample locations and estimated footprint of impacted soil.
- On **April 23, 2024**, following receipt of analytical results from the sampling conducted on April 17, 2024, samples were collected from two additional horizontal step-out sample locations (DB-19D and DB-20D) off the edge of the Amoco pad to the north and northeast.

Soil boring locations are shown on **Figure 2**. A Field Sampling Summary and Soil Boring Logs are provided in **Appendix D**. Site photographs are provided in **Appendix E**.

It is also noted that additional vertical drilling is planned upon receipt of a drilling permit with the New Mexico Office of the State Engineer (NMOSE). Since previous drilling only extended to 29 ft bgs, a deeper permitted soil boring will be advanced to 51 ft bgs to confirm the presence/absence of groundwater. If groundwater is not encountered above 51 ft bgs, a revised remediation plan will be proposed which would entail excavation to a maximum depth of 4 ft bgs since all results are below the applicable regulatory limits of 10,000 milligrams per kilogram (mg/kg) for chloride, if depth to groundwater is greater than 51 ft bgs.

4.1 Soil Delineation Sampling Results

The soil analytical results were initially compared to Table I, Closure Criteria for Soils Impacted by a Release provided in 19.15.29.12 NMAC, which includes the following:

Table I Closure Criteria for Soils Impacted by a Release					
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/L TDS	Constituent	Limit			
	Chloride	600 mg/kg			
< 50 faat haa	TPH (GRO+DRO+MRO) BTEX	100 mg/kg			
≤ 50 feet bgs		50 mg/kg			
	Benzene	10 mg/kg			
	Chloride	10,000 mg/kg			
54 fact 400 fact bas	TPH (GRO+DRO+MRO)	2,500 mg/kg			
51 feet – 100 feet bgs	BTEX	50 mg/kg			
	Benzene	10 mg/kg			

Based on currently available data, it has been assumed that depth to groundwater may be less than 51 ft bgs. Therefore, the soil sampling data have been compared to the most stringent regulatory limits listed above in **Table I**. These limits are also consistent with the requirements specified for the upper four feet of impacted soil under 19.15.29.13.D.(1) NMAC for *RESTORATION, RECLAMATION AND RE-VEGETATION*.

Benzene and BTEX results were below the regulatory limits for all soil samples analyzed from the August 2022 sampling event.

Reported TPH concentrations exceeded the regulatory limit of 100 mg/kg for the 0 to 1 ft bgs depth interval in initial hand auger borings B-1, B-2, and B-4 drilled and sampled during the August 2022 sampling event.

Chloride concentrations also exceeded the applicable regulatory limit of 600 mg/kg for soil samples collected from several of the hand auger soil borings drilled in August 2022. As described above, additional delineation sampling activities were conducted in November 2022, February 2023, and March 2023, and then later in April 2024.

As shown on **Figure 3A**, the horizontal extent of TPH concentrations above 100 mg/kg is delineated to the west by boring B-3, to the north by boring DB-6, to the east by boring B-8, and to the south by boring B-9.

As shown on **Figure 3B**, the horizontal extent of chloride concentrations above 600 mg/kg is delineated to the west by borings B-3 and DB-3, to the north of the subject spill area by borings DB-5 and B-5, to the east of the subject spill area by boring DB-18, and to the south by borings B-2 and DB-17B. The vertical extent of chloride concentrations is delineated by the sample collected from the 10 to 12 ft depth interval from boring DB-11, which exhibited a chloride concentration of 454 mg/kg.

Based on the results for additional step-out samples collected on April 23, 2024, the horizontal extent of chloride concentrations above 600 mg/kg is delineated to the north by boring DB-20D and to the northeast by boring DB-19D.

The laboratory results are summarized in **Table 1** and the laboratory analytical reports are provided in **Appendix E**.

5. Site Assessment/Delineation Sampling Conclusions

The Site assessment and soil delineation results include the following:

- No sensitive environmental and/or ecological receptors were identified within the search criteria distances described in 19.15.29.11 and 19.15.29.12.C.(4) NMAC.
- Benzene and BTEX results were below the regulatory limits for all soil samples analyzed.
- Reported TPH concentrations exceeded the regulatory limit of 100 mg/kg for the 0 to 1 ft bgs depth interval in initial hand auger borings B-1, B-2, and B-4. The horizontal extent of TPH concentrations above 100 mg/kg are delineated to the west by boring B-3, to the north by boring DB-6, to the east by boring B-8, and to the south by boring B-9.
- The horizontal extent of chloride concentrations above 600 mg/kg has been delineated to the west by borings B-3 and DB-3, to the north by borings DB-5, B-5, and DB-20D, to the northeast by boring DB-19D, to the east by boring DB-18, and to the south by borings B-2 and DB-17B.
- The vertical extent of chloride concentrations is delineated by the sample collected from the 10 to 12 ft depth interval from boring DB-11, which exhibited a chloride concentration of 454 mg/kg.

6. Proposed Remediation Plan

Future Site remediation activities will be conducted to address the following regulatory requirements applicable to the site:

- Soil remediation requirements in Table I, Closure Criteria for Soils Impacted by a Release provided in 19.15.29.12 NMAC; and
- Soil reclamation requirements under 19.15.29.13.D.(1) NMAC.

The previous report indicated that Chevron was planning to decommission the operations equipment and remove the associated infrastructure from the Amoco Federal 11 CTB well pad. However, it is now understood that this is no longer planned, and the Amoco pad will continue operations until at least 2025. As such, remedial activities will need to be coordinated with Chevron Operations, and some areas under currently active equipment are being proposed for deferral (i.e., under the active separator battery), as further described below.

6.1 Proposed Soil Remediation/Reclamation Approach

As required by the NMOCD to address the impacted soil, remediation is proposed for the area shown on **Figure 4**. Soil remediation/reclamation will be conducted through excavation and offsite disposal of impacted soil as further described below in *Section 6.2*.

6.2 Soil Excavation and Confirmation Sampling associated with Site Remediation/Reclamation

The impacted soil will be excavated until concentrations from confirmation samples are reported below 600 mg/kg for chloride and 100 mg/kg for TPH and based on the assumption of groundwater presence

less than 50 feet bgs.¹ The approximate footprint of the excavation area, based on delineation samples collected and analyzed to date, is 54,243 square feet (ft^2) as shown on **Figure 4**. The area within/below the active separator tank battery and associated piping, is being requested for approval for deferral in accordance with 19.15.29.(C)(2) NMAC. The area for proposed deferral is shown on **Figure 4**.

It is currently estimated that approximately 10,450 cubic yards (yd³) of impacted soil will be removed (based on a soil fluff factor of 1.3). The actual extent of the soil excavation will be determined based on the laboratory analytical results for confirmation soil samples collected from the walls and bottom of the excavation as described below. Additional excavation refinement samples may also be collected to assist with directing the excavation activities. The excavated soil will be transported offsite for disposal at a Chevron-approved waste disposal facility that accepts oil and gas exploration and production (E&P) exempt wastes.

6.3 Soil Confirmation Sampling Plan

In conjunction with excavation of impacted soil, composite confirmation samples will be collected from the walls and bottom of the excavation according to NMOCD requirements (see **Figure 4**). The area that exhibited TPH exceedance of regulatory limits is relatively small and is entirely contained within the area of chloride regulatory exceedances. Therefore, if acceptable, confirmation that remediation objectives have been achieved at the excavation floor (i.e., bottom) and perimeter walls will be demonstrated primarily based on chloride results for the confirmation samples described below.

- Excavation floor confirmation samples (five-point composite samples) will be collected at about 50 to 55 locations (approximately one for each 1,000 ft²) as shown on Figure 4. The results of excavation floor samples will also be supplemented by the results for numerous soil borings that have been sampled within the proposed excavation footprint, at appropriate depths to be representative of chloride concentrations at the floor of the excavation. Additional excavation floor samples may be collected if the area of the proposed excavation increases substantially based on the results for confirmation samples collected from the excavation walls, and/or if wet or discolored (stained) soil areas are observed.
- BTEX and TPH confirmation samples will also be collected within the portion of the excavation footprint where TPH exceedances were reported and/or if elevated PID results or hydrocarbon staining and odors are observed.
- Excavation wall confirmation soil samples (five-point composite samples) will be collected at a spacing of no greater than 100 ft along the perimeter of the excavation.

The confirmation soil samples will be submitted for laboratory analysis of chloride by EPA Method 300.0 and TPH by Method 8015B (within areas with TPH impacts only). The soil samples will be collected in clean, laboratory-provided sample containers, labeled, and placed on ice in laboratory-provided coolers. AECOM will complete chain-of-custody forms and arrange for shipment/transportation of the samples to Eurofins in Midland, Texas for laboratory analysis.

Excavation activities will continue as necessary until confirmation sample results are within the required regulatory limits. Clean backfill will then be used to backfill the excavated areas and photos will be taken prior to backfilling.

6.4 Site Closure Report

Upon completion of soil remediation/reclamation activities, a Site Closure Report will be submitted to the NMOCD describing the soil excavation and disposal activities, and the closure confirmation sampling results.

¹ Note that additional drilling to 51 ft bgs is planned for the near future. If groundwater is not encountered to 51 ft bgs, then a proposed revision to this remediation plan will be requested and the depth of the excavation modified to a maximum of 4 feet bgs, based on regulatory limits when groundwater is greater than 51 ft bgs.

6.5 Schedule

Depending on receipt of approval from the NMOCD, the soil remediation/reclamation activities will be scheduled within three months of approval. The NMOCD will be notified prior to initiation of excavation activities and upon completion.

7. References

New Mexico Water Rights Reporting System (NMWRRS), Water Column/Average Depth To Water Report. http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html .

National Wetlands Inventory, surface waters and wetlands. https://www.fws.gov/wetlands/data/mapper.html

Google Earth Pro.

United States Department of Agriculture – Natural Resources Conservation Service. Web Soil Survey. Available online at https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

Figures

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AMOCO FED 11 CTB

SITE LOCATION MAP

AECOM Figure: 1



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Legend						
Ap Jur E Ele U Un uti + So • So	proximate Extent of ne 2022 Release Area ectric Line known underground lity/anomaly identified b il Boring with no exceed il Boring with exceedance il Boring not sampled/ar	ances ce				
Notes	-					
 Units for all analytical data provided are mg/Kg (milligrams per kilogram). Depth (ft) - feet below ground surface. Results below the laboratory Sample Detection Limit (SDL) are preceded by "<". Bold values represent detectable concentrations above the SDLs. Bold and Shaded - Reported concentration exceeds NMAC Regulatory Limits. 						
	atory Limits: H = 100 mg/kg					
0	45	90				
	Scale in Feet					
	AECOM					
Amoco Federal 11 CTB Eddy County, New Mexico						
Projec	Project Number : 60689116					
TPH Soil Sample Analytical Results Map						
GIS File: Fig	ure 3A.mxd					
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Legend					
Ар	proximate Extent of ne 2022 Release Area	•			
	ectric Line				
U· Ur ut	known underground ility/anomaly identified b	y GPRS			
	il Boring with no exceed				
🔶 So	il Boring with exceedan	се			
🔶 Sc	il Boring not sampled/ai	nalyzed			
 Units for all analytical data provided are mg/Kg (milligrams per kilogram). Depth (ft) - feet below ground surface. Results below the laboratory Sample Detection Limit (SDL) are preceded by "<". Bold values represent detectable concentrations above the SDLs. Bold and Shaded - Reported concentration exceeds NMAC Regulatory Limits. Regulatory Limits: Chloride = 600 mg/kg 					
0	45 Scale in Feet	90			
Amoco Federal 11 CTB Eddy County, New Mexico					
Projec	t Number:60689116				
Chloride Soil Sample Analytical Results Map GIS File: Figure 3B.mxd					
Drawn by:	Date:	Figure:			
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Legend Approximate Extent of June 2022 Release Area Area Proposed for Deferral Proposed/Anticipated **Excavation Extents** ···E···· Electric Line Unknown underground - -U- - utility/anomaly identified by GPRS Soil Boring with no exceedances Soil Boring with TPH and/or Chloride exceedance Soil Boring not sampled/analyzed Proposed 5-point Composite Confirmatory Base Samples Proposed 5-point Composite Confirmatory Wall Samples (~every 100 ft) 45 90 Ω Scale in Feet AECOM Amoco Federal 11 CTB Eddy County, New Mexico Project Number : 60689116 **Proposed Remediation Excavation Plan Map** GIS File: Figure 4.mxd Drawn by: Date: Figure: 4 LI 04/26/2024



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Table 1 Soil Analytical Results (BTEX, TPH, Chloride) Chevron MCBU - Amoco Federal 11 CTB Spill Site Eddy County, New Mexico

		Comple Door	Total I	Petroleum Hydroc	arbons (EPA Meth	PA Method 8015 NM) Volatile Organic Compounds (EPA Me			Method 8021B NM)	Chloride (EPA Method 300.0	
Sample ID	Sample Date	Sample Depth (ft bgs)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	Total TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Method 300.0 Anions by Ion Chromatography
NMAC Regulat	ory Limits	0 - 4 ft bgs	(06-010)	(C10-C28)	(028-036)	100	10		-		50	600
(Groundwater >	>50 ft bgs)	> 4 ft bgs 0 - 1	 <49.8	 391	85.2	100 476	10 <0.00199 F	 1 <0.00199 F1	 <0.00199 F1	 <0.00398 F1	50 <0.00398	600 1,730
B-1	8/23/2022	1 - 2	NA NA	NA	NA	NA	NA NA	NA	NA	NA NA	NA	1,120
		2-3	NA <50.0	NA 54.5	NA <50.0	NA 54.5	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00399	NA <0.00399	1,160
		0 - 1	<50.0	82.8	57.7	141	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	246
B-2	8/23/2022	1 - 2	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	265
		2 - 3 3 - 4	NA <49.9	54.2	NA <49.9	54.2	NA <0.00199	NA <0.00199	NA <0.00199	NA <0.00398	NA <0.00398	250 317
		0-1	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	< 0.00403	7.15
B-3	8/23/2022	2 - 3	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	5.73 524
		3 - 4	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	680
		0 - 1 B-DUP-01	<50.0 <50.0	837 804	222 218	1,060	<0.00200 <0.00201	<0.00200 <0.00201	<0.00200 <0.00201	<0.00399 <0.00402	<0.00399 <0.00402	2,930 2,260
B-4	8/23/2022	1 - 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,740
		2 - 3 3 - 4	NA <49.8	NA <49.8	NA <49.8	NA <49.8	NA <0.00199	NA <0.00199	NA <0.00199	NA <0.00398	NA <0.00398	1,480 1,770
	1	0-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	533
B-5	8/23/2022	1-2 2-3	NA <49.9	NA <49.9	NA <49.9	NA <49.9	NA <0.00198	NA <0.00198	NA <0.00198	NA <0.00396	NA <0.00396	334 402
B-7	8/23/2022	3-4	NA NA	NA NA	NA	NA NA	NA	NA	NA	NA	NA	3,610
во	8/23/2022	0 - 1	<53.4	<53.4	<53.4	<53.4	NA	NA	NA	NA	NA	1,160
B-8	0/23/2022	1 - 2 2 - 3	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	477 624
B-9	8/23/2022	0 - 1	<52.2	<52.2	<52.2	<52.2	NA	NA	NA	NA	NA	NA
	11/00/0007	4 - 5 5 - 6	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	2,680
AMOCO DB-1	11/29/2022	6 - 7	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,100
AMOCO DB-2	11/29/2022	7 - 8 4 - 5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,310 457
AMOCO DB-3	11/29/2022	3 - 4	<50.0	<50.0	<50.0	<50.0	NA	NA	NA	NA	NA	455
		4 - 5 0 - 1	<50.0 NA	<50.0 NA	<50.0 NA	<50.0 NA	NA NA	NA NA	NA NA	NA NA	NA NA	313 8,310
AMOCO DB-4	11/29/2022	DUP 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,900
Anoco 55-4	THEOLE	3 - 4 4 - 5	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	740 280
		4-5	<49.9	<49.9	<49.9	<49.9	NA	NA NA	NA	NA	NA	118
AMOCO DB-5	11/29/2022	2 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	198
		3 - 4 4 - 5	NA <50.0	NA <50.0	NA <50.0	NA <50.0	NA NA	NA NA	NA NA	NA NA	NA NA	369 277
		0 - 1	<49.9	52.4	<49.9	52.4	NA	NA	NA	NA	NA	2,830
		2 - 3 3 - 4	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	999 917
AMOCO DB-6	11/29/2022	4 - 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	738
		5 - 6 7 - 8	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	717 205
		8-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.5
		0 - 1 2 - 3	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	5,800 680
		3 - 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,630
AMOCO DB-7	11/29/2022	4 - 5 5 - 6	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,250 3,880
		6 - 7	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,250
		8-9 0-1	NA	NA	NA	NA	NA NA	NA	NA NA	NA	NA	1,330 889
AMOCO DB-8	11/29/2022	2 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	804
		3 - 4	NA	NA	NA	NA NA	NA NA	NA	NA NA	NA NA	NA	197
AMOCO DB-10	11/29/2022	3 - 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,980
DB-11	2/8/2023	6 - 8 8 - 10	NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	203 267
		10 - 12	NA	NA	NA	NA	NA	NA	NA	NA	NA	454
		0-1 2-3	NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	4,470 F 947
		4 - 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	733
DB-12	2/8/2023	5-6 6-7	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	783
		7 - 8	NA	NA	NA	NA	NA	NA	NA	NA	NA	733
		8 - 9 9 - 10	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	978 1.020
DB-13	2/9/2023	0 - 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,160
	2.2.2020	2 - 3 0 - 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	392
DB-14	2/9/2023	2 - 3	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	570 2,330
00-14	210/2020	DUP-01 4 - 5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	2,350 393
DB-15	2/9/2023	4 - 5 0 - 1	NA	NA	NA	NA	NA NA	NA	NA NA	NA	NA	393 4,550
		2 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	436
DB-15A DB-15B	3/8/2023 3/8/2023	0 - 1 0 - 1	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	2,680 5,120
		0 - 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,550
DB-15C	3/8/2023	0 - 1	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	2,450 583 F
DB-15C DB-16	2/9/2023		NA				NA	NA	NA	NA	NA	190
		2 - 3 0 - 1	NA	NA	NA	NA						
DB-16 DB-17	2/9/2023 2/9/2023	2 - 3 0 - 1 2 - 3	NA NA	NA NA	NA	NA	NA	NA	NA NA	NA NA	NA NA	839 886
DB-16 DB-17 DB-17A DB-17B	2/9/2023 2/9/2023 3/8/2023 3/8/2023	2 - 3 0 - 1	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA	NA NA	NA NA	NA NA	886 249
DB-16 DB-17 DB-17A DB-17B DB-18	2/9/2023 2/9/2023 3/8/2023 3/8/2023 2/9/2023	2 - 3 0 - 1 2 - 3 1 - 2 1 - 2 0 - 1	NA NA NA NA	NA NA NA NA	NA NA NA	NA NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	886 249 567 F
DB-16 DB-17 DB-17A DB-17B	2/9/2023 2/9/2023 3/8/2023 3/8/2023	2 - 3 0 - 1 2 - 3 1 - 2 1 - 2	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA	NA NA	NA NA	NA NA	886 249
DB-16 DB-17 DB-17A DB-17B DB-17B DB-17B DB-19A DB-19A DB-19B DB-19C	2/9/2023 2/9/2023 3/8/2023 2/9/2023 2/9/2023 4/17/2024 4/17/2024 4/17/2024	2 - 3 0 - 1 2 - 3 1 - 2 1 - 2 0 - 1 0 - 1 0 - 1 0 - 1	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	886 249 567 F 656 800 1,340
DB-16 DB-17 DB-17A DB-17B DB-17B DB-19B DB-19A DB-19B	2/9/2023 2/9/2023 3/8/2023 3/8/2023 2/9/2023 4/17/2024 4/17/2024 4/17/2024 4/23/2024 4/17/2024	2 - 3 0 - 1 2 - 3 1 - 2 1 - 2 0 - 1 0 - 1 0 - 1	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	886 249 567 F 656 800
DB-16 DB-17 DB-17A DB-17B DB-18 DB-19A DB-19A DB-19B DB-19C DB-19D	2/9/2023 2/9/2023 3/8/2023 2/9/2023 2/9/2023 4/17/2024 4/17/2024 4/17/2024 4/17/2024	2 - 3 0 - 1 2 - 3 1 - 2 1 - 2 0 - 1 0 - 1 0 - 1 0 - 1 0 - 1	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	886 249 567 F 656 800 1,340 176

Soli analysea performed by Eurofins Environment Testing in Midland, Tesas (2022 & 2023 samples), and by Cardinal Laboratories in Hobbs, New Mexico (2024 samples), 2. All analytical data are reported in units of milligrams per kilogram (mg/kg).
3. Regulatory Limits are form 19 15.29 New Mexico Administrative Code (NMAC) - "Closure Criteria for Solis Impacted by a Release."
4. "-- Indicates that no applicable regulatory limit exists for that analyte.
5. "Rod" - Gaedine Range Organic Compounds
6. "Rod" - Gaedine Range Organic Compounds
8. "NRO" - Most OliLube Range Organic Compounds
8. "NRO" - Most OliLube Range Organic Compounds
9. "NA" - Not analyzed.
10. Results Followated by "F1" Indicate matrix spike andpro matrix (SpiLs) are preceded by "<**.
11. Results followed by "F1" Indicate matrix spike andpro matrix (SpiLs) are preceded by "<**.
12. Bold values reported decubited concentration secoeds NMAC Regulatory Limits.
13. Bold and Shaded - Reported concentration secoeds NMAC Regulatory Limits.



Form C-141 – Amoco Federal 11 CTB

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	nAPP2216547154
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude 32.31808478

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Amoco Federal 11 CTB	Site Type: Oil
Date Release Discovered: 6-3-22	API# (if applicable)

Unit Letter	Section	Township	Range	County
Ι	11	23S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 1.579	Volume Recovered (bbls) 1 bbl
Produced Water	Volume Released (bbls) 4.731	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: The	two-phase liquid dump was plugged and prevented flow	v, causing the vessel to overflow.

Incident ID	nAPP2216547154
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?									
🗌 Yes 🖾 No										
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?										

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Title: Water Specialist					
Date: 6-14-22					
Telephone: 432-687-7108					
Date:					

Page 2

Oil Conservation Division

	Page 23 of 259
Incident ID	nAPP2216547154
District RP	
Facility ID	
Application ID	

Spill Calculations:

Area 1 Shape: Rectangle Secondary Containment?: No Standing Liquid Dimensions: 15 ft x 10 ft x 1 in Total Volume: 2.310 bbl Water Cut: 75% Oil Volume:.578 bbl Penetration Depth: .25 in Fluid to Soil Volume: .083 bbl Water Volume: 1.732 bbl

Area 2

Shape: Rectangle Secondary Containment?: No Standing Liquid Dimensions: 10 ft x 25 ft x .5 in Total Volume: 1.994 bbl Water Cut: 75% Oil Volume: .499 bbl Penetration Depth: .25 in Volume to Soil Volume: .139 bbl Water Volume: 1.495 bbl

Area 3

Shape: Rectangle Secondary Containment?: No Standing Liquid Dimensions: 10 ft x 12 ft x .25 in Total Volume: .512 bbl Water Cut: 75% Oil Volume: .128 bbl Penetration Depth: .25 in Fluid to Soil Volume: .067 bbl Water Volume: 0.384 bbl

Area 4

Shape: Rectangle Secondary Containment?: No Standing Liquid Dimensions: 35 ft x 20 ft x .125 in Total Volume: 1.494 bbl Water Cut: 75% Oil Volume: .374 bbl Penetration Depth: .125 in Fluid to Soil Volume: .195 bbl Water Volume: 1.12 bbl

Appendix B

NMWRRS Water Column / Average Depth to Water Report

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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= (quarters are sn		,	eters) (In feet)
POD Number	POD Sub- Code basin Cour		Two Pro	X Y		Depth Water Water Column
C 04216 POD4	CUB ED	-		5 88499 3576513	782 20	10 10
C 04216 POD1	CUB ED	2 4 1 11	23S 28E	588488 3576534 🥥	803 20	10 10
<u>C 00109</u>	CUB ED	1 3 3 04	23S 27E	588486 3576531 🌍	803 168	120 48
C 04216 POD3	CUB ED	1 4 1 11	23S 28E	588501 3576556 🌍	804 23	13 10
C 04216 POD2	CUB ED	1 4 1 11	23S 28E	588465 3576555 🥌	834 20	10 10
C 03469 POD3	CUB ED	3 4 3 11	23S 28E	588381 3575538 🥌	949 47	
C 03469 POD1	CUB ED	3 4 3 11	23S 28E	588374 3575538 🥌	955 68	38 30
C 03469 POD2	CUB ED	3 4 3 11	23S 28E	588382 3575506 🤤	967 48	
				Avera	age Depth to Water:	33 feet
					Minimum Depth:	10 feet
					Maximum Depth:	120 feet
Record Count: 8						
Basin/County Search	<u>ı:</u>					
Basin: Carlsbad	Count	y: Eddy	Subbasin:	Carlsbad Underground	Basin	
UTMNAD83 Radius S	Search (in meters):					
Easting (X): 5891	55.75	Northing (Y):	3576087.89	Radiu	<mark>s:</mark> 1000	

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.

OSE POD Locations Map_Amoco



4/7/2023, 1:41:23 PM



Released to Imaging: 5/8/2024 1:03:13 PM



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Appendix C

FEMA Flood Hazard Maps

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Received by OCD: 4/30/2024 7:58:36 AM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

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OReleasea to Imaging: 5/8/2024 1.999.13 PM 1,500

2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



Field Sampling Summary and Soil Boring Logs

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Date	Boring ID	Depth (ft bgs)	Lithology		PID
		0 - 1	10:08	0 - 1': tannish-orange, fine to very fine sand; contains minor caliche gravel; dry.	(ppm) 22.5
		1-2	10:00	1 - 3.8': light brown, very fine sand; dry.	9.1
8/23/2022	B-1	2 - 3	10:00	hit refusal at approximately 3.8 ft bgs.	7.3
		3 - 4	10:10		7.9
		0 - 1	10:35	0 - 1': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	9.9
		1 - 2	10:36	1 - 3.5': same as above, but gravel content no longer observed.	3.3
8/23/2022	B-2	2 - 3	10:30	hit refusal at approximately 3.5 ft bgs.	4.8
		2 - 3 3 - 4	10:37	The relusar at approximately 0.0 it bys.	4.0 6.2
		0 - 1	11:10	0 - 2': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	7.2
		1 - 2	11:10	2 - 3.8': same as above, but with reduced gravel content.	2.5
8/23/2022	B-3	2 - 3	11:12	hit refusal at approximately 3.8 ft bgs.	3.0
		2 - 3 3 - 4	11:12	The relusar at approximately 5.6 it bys.	2.2
		0 - 1	11:40	0 - 2': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	9.0
		0 - 1 1 - 2	11:40	(collected duplicate sample from 0 - 1' depth interval)	9.0 5.1
8/23/2022	B-4	2 - 3	11:41		
		2 - 3 3 - 4	11:42	2 - 3.5': same as above, but with reduced gravel content.	5.5
				hit refusal at approximately 3.5 ft bgs.	4.4
0/00/0000	D 6	0 - 1	12:07	0 - 2': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	3.3
8/23/2022	B-5	1 - 2	12:08	2 - 3': same as above, but with reduced gravel content.	3.9
		2 - 3	12:09	hit refusal at approximately 3 ft bgs.	4.5
0/00/00		0 - 1	12:28	0 - 1': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	6.5
8/23/2022	B-6	1 - 2	12:29	1 - 3': same as above, but with reduced gravel content.	4.7
		2 - 3	12:30	hit refusal at approximately 3 ft bgs.	7.9
		0 - 1	12:50	0 - 3.8': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	7.1
8/23/2022	B-7	1 - 2	12:51		6.1
0,20,2022	51	2 - 3	12:52	hit refusal at approximately 3.8 ft bgs.	5.8
		3 - 4	12:53		1.7
		0 - 1	13:35	0 - 1': tannish-red, very fine sand; abundant caliche gravel and coarse sand.	0.8
8/23/2022	B-8	1 - 2	13:36	1 - 3': light brown, very fine sand; dry.	2.8
		2 - 3	13:37	hit refusal at approximately 3 ft bgs.	4.0
		0 - 1	14:00	0 - 2': light brown, very fine sand; minor caliche gravel and coarse sand; dry.	3.0
0/00/0000	D O	1 - 2	14:01	2 - 3.9': same as above, but with reduced gravel content.	4.7
8/23/2022	B-9	2 - 3	14:02	hit refusal at approximately 3.9 ft bgs.	2.9
		3 - 4	14:04		1.1
		0 - 1	16:15	0 - 3': reddish-brown, silty sand; dry.	0.0
		1 - 2	NS	(collected duplicate sample from 0 - 1' depth interval)	NM
		2 - 3	NS	3 - 5': tan-colored, fine silty sand with caliche nodules; dry.	NM
11/29/2022	DB-4	3 - 4	16:20	5 - 7': tan-colored caliche, dry.	0.0
		4 - 5	16:23	hit refusal at approximately 7 ft bgs.	0.0
		5 - 6	16:25		0.0
		6 - 7	16:27		0.0
		0 - 1	12:45	0 - 4': dark brown, silty sand; moist.	0.0
		1 - 2	NS	4 -5': tan-colored caliche; dry.	NM
11/29/2022	DB-5	2 - 3	12:50	end of borehole at 5 ft bgs.	0.0
11/20/2022	55-0	2 - 3 3 - 4	12:55		0.0
		3 - 4 4 - 5	12:55		0.0
		4 - J 0 - 1	12:25	0 - 3': medium-brown, silty sand with caliche nodules.	0.0
		0 - 1 1 - 2	NS	-	
11/29/2022	DB-10			3 - 4': light-brown, fine silty sand with caliche nodules.	NM
		2 - 3	NS	hit refusal at approximately 4 ft bgs.	NM 0.0
		3 - 4	12:35		0.0
		0 - 1	9:15	0 - 1': light brown, moderately to well-graded, very fine silty sand mixed with	0.6
0/0/0000		1 - 2	NS	angular to subrounded caliche gravel; dry.	0.6
2/9/2023	DB-15	2 - 3	9:16	1 - 5': light grey, hard/indurated caliche; dry.	1.1
		3 - 4	NS	end of borehole at 5 ft bgs.	0.8
0/0/0000	4 - 5 9:17		0.3		
3/8/2023	DB-15A			1.2	
3/8/2023	DB-15B	0 - 1	11:50	0 - 1': dark brownish-grey, very fine silty sand with up to 20% caliche gravel.	4.6
3/8/2023	DB-15C	0 - 1	12:00	0 - 1': dark brownish-grey, very fine silty sand with up to 20% caliche gravel.	4.8
		0 - 1	10:42	0 - 1': medium-brown, moderately to well-graded, very fine silty sand with	0.9
		1 - 2	NS	up to 10% subrounded caliche gravel; dry.	0.8
2/9/2023	DB-16	2 - 3	10:43	1 - 2': medium-brown, poorly-graded, very fine silty sand; dry.	0.6
		0 1			0.8
		3 - 4	NS	2 - 5': light-grey, hard/indurated caliche with interstitial very fine sand and silt. end of borehole at 5 ft bgs.	0.0

Appendix D Field Sampling Summary Chevron MCBU - Amoco Federal 11 CTB Spill Site Eddy County, New Mexico

AECON

Date	Boring ID	Depth (ft bgs)	Time	Lithology	PID
		(it bgs) 0 - 1	44.50		(ppm)
		-	11:58	0 - 2': medium-brown, poorly-graded, very fine silty sand; dry.	1.3
0/0/0000	DD 47	1 - 2	NS	2 - 3': medium-brown, well-graded, very fine silty sand with abundant	1.7
2/9/2023	DB-17	2 - 3	11:59	subrounded caliche gravel (coarse sand to small pebbles); dry.	1.6
		3 - 4	NS	3 - 5': light-grey to tan, hard/indurated calciche with interstitial sand and silt.	1.8
		4 - 5	12:00	end of borehole at 5 ft bgs.	0.7
3/8/2023	DB-17A	0 - 1	NS	0 - 2': brownish-orange, very fine silty sand with up to 10% subrounded	8.6
		1 - 2	9:55	caliche gravel; dry.	2.7
3/8/2023	DB-17B	0 - 1	NS	0 - 2': medium-brown, very fine silty sand with up to 10% subrounded	2.0
0/0/2020	55 115	1 - 2	10:25	caliche gravel; dry.	4.9
3/8/2023	DB-17C	0 - 1	NS	0 - 2': light to medium-brown, well-graded, gravelly silt and sand with up to	7.6
5/0/2025		1 - 2	11:05	20% caliche gravel (up to 10 cm diameter); dry.	4.8
		0 - 1	12:24	0 - 1': medium-brown, poorly-graded, very fine silty sand with approx. 1 - 2%	1.5
		1 - 2	NS	caliche nodules and small rounded pebbles; dry.	0.8
2/9/2023	DB-18	2 - 3	12:25	1 - 3': medium-brown, poorly-graded, very fine silty sand; dry.	1.7
		3 - 4	NS	3 - 5': light-grey, hard/indurated calciche with interstitial very fine sand and silt.	0.6
		4 - 5	12:26	end of borehole at 5 ft bgs.	0.6
		0 - 1	12:45	0 - 1': medium-brown, well-graded, fine to medium sand with abundant	1.2
		1 - 2	NS	caliche gravel (coarse sand to small pebbles); dry.	1.1
2/9/2023	DB-19	2 - 3	12:46	1 - 2': medium-brown, poorly graded, fine to very fine silty sand; dry.	0.4
2/3/2023	00-13	2 - 3 3 - 4	NS	2 - 4': medium-brown, well-graded, fine sandy to silty, rounded gravel; dry.	1.0
		3 - 4 4 - 5	12:47	4 - 5': medium-brown, poorly-graded, very fine silty sand; dry.	1.0
4/17/2024	DB-19A	0 - 1	15:45	0 - 1.5': medium-brown, fine to very fine silty sand with abundant subrounded	1.8
		1 - 1.5	15:46	caliche gravel; dry; loose/unconsolidated. Hit refusal at approx. 1.5 ft bgs.	3.3
4/17/2024	DB-19B	0 - 1	16:37	0 - 1.5': medium-brown, fine to very fine silty sand with abundant subrounded	5.8
		1 - 1.5	16:38	caliche gravel; dry; loose/unconsolidated. Hit refusal at approx. 1.5 ft bgs.	5.9
4/17/2024	DB-19C	0 - 1	17:16	0 - 2': medium-brown, fine to very fine silty sand with abundant subrounded	2.3
		1 - 2	17:17	caliche gravel; dry; loose/unconsolidated.	1.9
4/23/2024	DB-19D	0 - 1	13:27	0 - 1': light to medium-brown, fine to very fine, poorly-graded sand; dry; loose/unconsolidated.	NM
4/47/0004		0 - 1	11:35	0 - 1.5': medium-brown, fine to very fine silty sand with abundant subrounded	3.5
4/17/2024	DB-20A	1 - 1.5	11:36	caliche gravel; dry; loose/unconsolidated. Hit refusal at approx. 1.5 ft bgs.	2.9
		0 - 1	12:30	0 - 1.5': medium-brown, fine to very fine silty sand with abundant subrounded	3.4
4/17/2024	DB-20B	1 - 1.5	12:31	caliche gravel; dry; loose/unconsolidated. Hit refusal at approx. 1.5 ft bgs.	3.8
				0 - 1.2': medium-brown, fine to very fine silty sand with abundant subrounded	
4/17/2024	DB-20C	0 - 1	13:05	caliche gravel; dry; loose/unconsolidated. Hit refusal at approx. 1.2 ft bgs.	2.8
4/23/2024	DB-20D	0 - 1	14:34	 0 - 1': light brownish-grey, fine to very fine, well-graded sand with abundant subrounded caliche gravel; dry; loose/unconsolidated. 	NM
4/23/2024	DB-20E 0 - 1 14:5		14:54	0 - 1': light brownish-grey, fine to very fine, well-graded sand with abundant	NM
				subrounded caliche gravel; dry; loose/unconsolidated.	
4/17/2024	DB-21A	0 - 1	13:52	0 - 2': medium-brown, fine to very fine silty sand with abundant subrounded	4.6
		1 - 2	13:53	caliche gravel; dry; loose/unconsolidated.	1.4
4/17/2024	DB-21B	0 - 1	14:45	0 - 2': medium-brown, fine to very fine silty sand with abundant subrounded	2.0
		1 - 2	14:46	caliche gravel; dry; loose/unconsolidated.	1.6
4/23/2024	BKGD-1	0 - 1	13:46	 0 - 1': light to medium-brown, fine to very fine, poorly-graded sand; dry; loose/unconsolidated; minor roots from adjacent vegetation. 	NM
4/23/2024	BKGD-2	0 - 1	15:14	0 - 1': light to medium-brown, fine to very fine, poorly-graded sand; dry;	NM
7/20/2024	51.00-2	0-1	13.14	loose/unconsolidated.	

Notes:

"ft bgs" - feet below ground surface "NS" - not sampled "NM" - not measured "PID" - Photoionization Detector "ppm" - parts per million

Released to Imaging: 5/8/2024 1:03:13 PM

A	E	C	DM						BORING LOG - WELL CONSTRUCTION DIAGRA	М	BORING NUMBER AMOCO DB-1 PAGE 1 OF 1		
	CLIENT _ Chevron MCBU PROJECT NAME _ MCBU NM Spill Sites PROJECT NUMBER _ 60689116; 60689124 PROJECT LOCATION _ Loving, Eddy County, NM												
сом	COMPLETED 11/29/22 DRILLING METHOD HA/DP GROUND WATER LEVEL LOGGED BY J. Lovely CHECKED BY B. Cland AT TIME OF DRILLING												
	NOTES Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE 32.31809278 LONGITUDE -104.0529249 Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push BOREHOLE DIAMETER 2.25"												
Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push BOREHOLE DIAMETER WELL DIAMETER													
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DI Mdd	Sampled Interval	Analysis	Graphic Log	NSCS	MATERIAL DESCRIPTION		Contact Depth		
		\ge						SM	Reddish-brown to tan-colored, silty SAND with caliche no	odules; dry.			
 5	HA		090	0.0)(4-5')	Cŀ					<u>5.0</u>		
	Ъ		36 36 36	0.0 0.0 0.0	(7-8')(6-7')(5-6')(4-5')	CI- CI- CI-	× × × × × × × × × × × × × × × × × × ×	ML	Tan-colored caliche , dry.		8.0		
							XXXX		Bottom of borehole at 8.0 feet.		0.0		

A	E	C	DM						BORING LOG - WELL CONSTRUCTION DIAGRAM	И	BOR	ING NUMBER AMOCO DB-2 PAGE 1 OF 1	
	CLIENT Chevron MCBU PROJECT NAME MCBU NM Spill Sites PROJECT NUMBER												
COMF	COMPLETED 11/29/22 DRILLING METHOD HA/DP GROUND WATER LEVEL LOGGED BY J. Lovely CHECKED BY B. Cland AT TIME OF DRILLING												
	NOTES Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE 32.31808533 LONGITUDE -104.0531234 Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push BOREHOLE DIAMETER 2.25"												
Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push BOREHOLE DIAWETER													
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DID	Sampled Interval	Analysis	Graphic Log	nscs	MATERIAL DESCRIPTION		Contact Depth		
		\boxtimes						SM	Reddish-brown to light brown, fine, silty SAND; dry.				
 _ 5 	DP HA		36 60 36	0.0 0.0	(7-8')(6-7')(5-6')(4-5')	CI- CI- CI-		MI	Caliche nodules observed from 4 to 7 ft bgs.		7.0		
				0.0	M <u>19</u>	CI-	× × × × × × × × × × × ×	ML	Bottom of borehole at 8.0 feet.		8.0		

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A	Ξ	C	DM						BORING LOG - WELL CONSTRUCTION DIAGRA	М	BOR	ING NUMBER AMOCO DB-3 PAGE 1 OF 1	
	CLIENT _ Chevron MCBU PROJECT NAME _ MCBU NM Spill Sites PROJECT NUMBER _ 60689116; 60689124 PROJECT LOCATION _ Loving, Eddy County, NM												
	LOGGED BY _J. Lovely CHECKED BY _B. Cland AT TIME OF DRILLING												
					l Centr	al Ta			.) Spill Site. LATITUDE <u>32.31809306</u>		ONGIT	UDE -104.0531692	
Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push BOREHOLE DIAMETER 2.25"													
WELL DIAMETER													
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DI4 UI4	Sampled Interval	Analysis	Graphic Log	NSCS	MATERIAL DESCRIPTION		Contact Depth		
Ŭ		\ge						SM	Brown-colored, fine, silty SAND; dry.				
 	HA		60 60	0.0 0.0 0.0)(5-6')(4-5')(3-4')	CI- CI- CI-			Caliche nodules observed from 5 to 6 ft bgs.		<u>6.0</u>		
 	DP		09	0.0 0.0 0.0 0.0	9-10'(8-9')(7-8')(6-7')(5-6')(4-5')(3-4')	CI-	× × × × × × × × × × × × × × × × × × ×	ML	Tan-colored caliche ; dry. Bottom of borehole at 10.0 feet.		10.0		

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A	E	C	DM						BORING LOG - WELL CONSTRUCTION DIAGRAI	N	BORING NUMBER AMOCO DB-6 PAGE 1 OF 1	
CLIENT _Chevron MCBU PROJECT NAME _MCBU NM Spill Sites PROJECT NUMBER _60689116; 60689124 PROJECT LOCATION _Loving, Eddy Co												
DATE	STA	ARTE	ED_11/	<u>29/</u> 22	DRILI	ING	CONTRAC	TOR_	Talon/LPE GROUND ELEVATION			
COMPLETED _11/29/22 DRILLING METHOD _HA/DP GROUND WATER LEVEL LOGGED BY _J. Lovely CHECKED BY _B. Cland AT TIME OF DRILLING												
NOTES _Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE _32.31812248											ONGITUDE104.0530028	
									- Solid Stem Auger; DP- Direct Push			
										WELL DIA	AMETER	
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DID	Samp	Analysis	Graphic Log	nscs	MATERIAL DESCRIPTION		Contact Depth	
	DP		48 60 60	0.0 0.0 0.0 0.0		TPH CI- TPH CI- TPH CI- CI- CI-		ML	Reddish-brown to tan-colored, silty SAND with caliche no Tan-colored caliche; dry. Bottom of borehole at 9.0 feet.		9.0	

A	E	C	ЭМ						BORING LOG - WELL CONSTRUCTION DIAGRAM				BORING NUMBER AMOCO DB-7 PAGE 1 OF 1		
	CLIENT Chevron MCBU PROJECT NAME MCBU NM Spill Sites PROJECT NUMBER 60689116; 60689124 PROJECT LOCATION Loving, Eddy County, NM														
сом	COMPLETED 11/29/22 DRILLING METHOD HA/DP GROUND WATER LEVEL LOGGED BY J. Lovely CHECKED BY B. Cland														
NOTES Amoco Federal 11 Central Tank Battery (CTB)													LONGITUDE104.0529277 DLE DIAMETER _2.25"		
Sample Type: HA-Hand Auger; HSA-Hollow Stem Auger; SS/								er; SSA	- Solid Stem Auger; Di				R		
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DID	Sampled Interval	Analysis	Graphic Log	nscs	MA	TERIAL DESCRIPTION		Contact Depth			
 	HA		0000	0.0 0.0 0.0 0.0	4-5')(3-4')(2-3') (0-1')	TPH Cl- TPH Cl- TPH Cl- TPH		SM	Reddish-brown to darl caliche nodules; dry.	k brown to tan-colored, fine, silty SA	AND with				
	DP		36 36	0.0 0.0 0.0	(7-8')(6-7')(5-6')(4-5')(3-4')(2-3')	CI- CI- CI-	× × × × × × × × × × × × × × × × × × ×	ML	Tan to white-colored o	aliche; dry.		<u>6.0</u> 8.0			
•

A	Ξ	C	DM						BORING LOG - WELL CONSTRUCTION DIAGRAN	M BOR	ING NUMBER AMOCO DB-8 PAGE 1 OF 1
CLIE	NT _	Che	vron M	CBU	9116;	6068	39124		PROJECT NAME _MCBU NM		IM
COMF	PLET	ED_	11/29/	22	DRILL	ING	METHOD	HA/DF	Talon/LPE GROUND ELEVATION GROUND WATER LEVEL		
				-					B. Cland AT TIME OF DRILLING	-	
									Spill Site. LATITUDE 32.31812673		TUDE <u>-104.0530778</u>
Sampl	е Тур	be: H	A-Hand	Auger;	HSA-H	ollow	Stem Aug	er; SSA	- Solid Stem Auger; DP- Direct Push	BOREHOLE DIA	
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DID	Samp	Analysis	Graphic Log	nscs	MATERIAL DESCRIPTION	Contact Depth	
 - 5 	DP		48 60 60	0.0 0.0 0.0 0.0 0.0 0.0	(8-9')(7-8')(6-7')(5-6')(4-5')(3-4')(2-3') (0-1')	TPH CI- TPH CI- TPH CI- CI- CI- CI-		SM ML SM	Reddish-brown, silty SAND ; damp. Tan to white-colored caliche ; dry.	<u>3.0</u> <u>7.0</u>	
				0.0		C			Bottom of borehole at 9.0 feet.	9.0	

A	E	C	ЭM						BORING LOG - WELL CONSTRUCTION DIAGRAM	Λ	BORING NUMBER AMOCO DB-9 PAGE 1 OF 1
					9116	6068	39124		PROJECT NAME _MCBU NM		sty NM
								TOR			
сом	PLET	ED_		22	DRILL	ING	METHOD	HA/DF			
) Spill Site. LATITUDE <u>32.31810127</u>		
Sampl	е Тур	be: H	A-Hand	Auger;	HSA-H	ollow	Stem Aug	er; SSA	- Solid Stem Auger; DP- Direct Push		E DIAMETER <u>2.25"</u> METER
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DIA	Sampled Interval	Analysis	Graphic Log	NSCS	MATERIAL DESCRIPTION		Contact Depth
	HA		60 60	0.0	(3-4')	CI-		SM	Reddish-brown, silty SAND ; damp.		4.0
	DP		36 36	0.0 0.0 0.0 0.0	(7-8')(6-7')(5-6')(4-5')(3-4')	CI- CI- CI- CI-	**************************************	ML	Tannish-yellow to brown-colored caliche ; dry.		3.0

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	_	2	~~~						BORING LOG - WE	ELL CONSTRUCTION DIAGRAM	vi	BORI	NG NUMBER AMOCO DB-11
A	-		OM										PAGE 1 OF 1
			vron M MBER		39116:	6068	39124			PROJECT NAME _MCBU NM PROJECT LOCATION _Loving			IM
								TOR	Talon/LPE				
			2/8/23				METHOD			GROUND ELEVATION GROUND WATER LEVEL			
LOGG	ED	BY	B. Cla						B. Wynne		-		
NOTE	TES Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE 32.318133												FUDE <u>-104.052936</u>
Sampl HA-Ha			; HSA-H	ollow S	Stem A	uger;	SSA - Solid	Stem A	Auger; DP- Direct Pus	h; AR - Air Rotary Cuttings			AMETER <u>4.5"</u> Er
					-								
	ype	, Bo	Push/ Recovery (in.)		Iterva	<u>is</u>	. <u>0</u>	(0				Contact Depth	
Depth (ft)	Sample Type	Drilling Log	Push	DIA	led Ir	Analysis	Graphic Log	uscs	M	ATERIAL DESCRIPTION		act D	
	San	Dri	Rec		Sampled Interval	◄	0	2				Cont	
0					0,			SM	Light-brown to tannis	sh-grey, very fine sand and silt mixe	d with		
		1							angular caliche grav	eı; ary.			
	AR	ł	09										
							$\begin{array}{c} & & \\ \times & \times & \times & \times \\ \times & \times & \times & \times \\ \times & \times &$	ML	Light-grey to tannish interstitial very fine s	, hard/indurated caliche with minor a	mounts of	3.0	
5							$\begin{array}{c} \times & \times & \times & \times \\ \times & \times & \times & \times \\ \times & \times &$			and, dry.			
							$\begin{vmatrix} x & x & x & x \\ x & x & x & x \end{vmatrix}$						
		1					$\begin{array}{c} \times \times \times \times \\ \times \times \times \\ \times \times \times \\ \times \times \times \end{array}$						
	AR	1	60	1.1	(9.)	CI-							
		ł		0.1	<u>_</u>								
10				0.1	(8-10')	CI-	× × × × × × × × × × × × × × × × × × ×					10.0	
]	0.2	12.)			SP	Tan to light-brown, p	poorly-graded, fine to very fine sand ; (dry.		
				0.2	(10-12')								
	AR	1	60	0.3	(12-14')	CI-							
L -				0.0	Щ Е								
15		I		0.4	(14-16')	CI-							
		I			ЩĘ	·							
				0.7	(16-18')	CI-							
	AR		60		Щ			SM	light-brown poorly-	graded, fine to very fine silty sand ; d		18.0	
		1		1.6	(18-20')	CI-		OW		gradoa, mie te vory mie onty cana , a	. . .		
20		4	-		н		× × × ×	ML	Light-grey to tannish	, hard/indurated caliche with minor a	mounts of	20.0	
				1.3	(20-22')	CI-	× × × × × × × × × × × × × × × × × × ×		interstitial very fine s	and; dry.			
	AR		60		н		$\begin{array}{c} \times & \times & \times & \times \\ \times & \times & \times & \times \\ & & & &$	SW	Light-brown, well-gra	aded, fine to medium sand with abund	dant	22.0	
	∢		e e	1.6	(22-24')	CI-			caliche lenses and n	odules; dry.			
	-				н								
25		H	-	1.7	(24-26')	CI-							
	1				H								
	AR		48	1.1	(26-2	CI-							
-	1			1.0	28-29') (26-28')	CI-						29.0	
F -					۳-9	·			E	Bottom of borehole at 29.0 feet.		20.0	

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A	Ξ	C	ЭМ						BORING LOG - WELL CONSTRUCTION DIAGRAM	В	ORING NUMBER AMOCO DB-12 PAGE 1 OF 1
CLIEN	NT _	Che	vron M		9116;	6068	39124		PROJECT NAME _MCBU NM S		ty, NM
DATE	STA	ARTE	ED _2/8	/23	DRILL	ING	CONTRAC	TOR_			
							METHOD		GROUND ELEVATION		
							-		B. Wynne AT TIME OF DRILLING		
NOTE	s _/	Amoo	co Fede	eral 11	l Centr	al Ta	ank Batter	(CTB	Spill Site. LATITUDE 32.318134	LO	NGITUDE -104.052781
Sample HA-Ha	e Typ nd A	be: uger;	HSA-He	bllow S	Stem Au	iger;	SSA - Solid	Stem A	uger: DP. Direct Push: AP - Air Potery Cuttings		E DIAMETER <u>4.5"</u> METER
					a						
	Sample Type	-og	Push/ Recovery (in.)		Sampled Interval	<u>s</u>	<u>.</u>	(0)			Contact Depth
Depth (ft)	ple 1	Drilling Log	ush. very	DID mdd	ed Ir	Analysis	Graphic Log	nscs	MATERIAL DESCRIPTION		act
	Sam	Dril	Reco		ampl	Ā	U U				Cont
0								SM	Light-brown to tannish-grey, very fine sand and silt mixed w		<u> </u>
	-	ł		1.4	М (-	CI-		Civi	minor amounts of angular to subrounded caliche gravel; dry.		
	-			0.8				N 41	Light-grey, hard/indurated caliche ; dry	2	.0
	AR	ł	60	0.9	(2-3')	CI-	× × × × × × × × × × × × × × × × × × ×	ML	Light-grey, hardindurated canche , dry.		
	-	1		2.2			$\hat{\mathbf{x}} \times \hat{\mathbf{x}} \times \hat{\mathbf{x}}$.0
5		ľ		1.3	(4-5	CI-		SM	Tannish-grey, very fine sand and silt mixed with minor amo angular to subrounded caliche gravel; dry.		.0
		2		0.2	(2-0) (2-0)	CI-	××××××××××××××××××××××××××××××××××××××	ML	Light-grey, hard/indurated caliche ; dry.		
				1.2	(6-7')	CI-	$\begin{array}{c} \times \times \times \times \\ \times \times \times \times \\ \times \times \times \times \end{array}$				
	AR	1	60	0.9	(1-8)	CI-	$\begin{array}{c} \times \times \times \times \\ \times \times \times \times \\ \times \times \times \times \end{array}$				
		ł		1.1	(j. 6-8)	CI-	× × × × × × × ×				
10		2		1.0	9-10'(8-9')(7-8')(6-7')(5-6')(4-5')	CI-	× × × × × × × × × × × × × × × × × × ×			1	0.0
					<u> </u>				Bottom of borehole at 10.0 feet.		

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A	E	C	ЭМ					I	BORING LOG - WELL CONSTRUCTION DIAGRAI	м	BORIN	IG NUMBER AMOCO DB-13 PAGE 1 OF 1
CLIE	NT _	Che	vron M	CBU					PROJECT NAME MCBU NM	I Spill Sites		
PROJ	JECI	NU	MBER	6068	89116;	6068	39124		PROJECT LOCATION _Lovin	g, Eddy Co	unty, N	M
									GROUND ELEVATION			
					DRILL	ING				-		
					l Cent	ral Ta		-			.ONGIT	UDE104.05264
Sampl HA-Ha	e Typ nd A	be: uger;	HSA-H	ollow S	Stem A	uger;	SSA - Solid	Stem A	uger; DP- Direct Push; AR - Air Rotary Cuttings			
					<u></u>							:K
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	0I4 UId		Analysis	Graphic Log	NSCS	MATERIAL DESCRIPTION		Contact Depth	
				2.8	0 4	CI-		SM	amounts of caliche nodules: drv.		1.0	
	AR		60	1.1 1.1 0.4	(5-3)	CI-		ML	Light-grey, hard/indurated caliche with interstitial very fin silt; dry.	e sand and		
				0.5	£ ∏	CI-		SW-SM		sand		
5				0.4	5-6')(A	CI-	× × × × × × × × × ×	ML	Light-grey, hard/indurated caliche ; dry.		5.0	
		1		1.5	(<u>-</u> -2)	CI-						
	AR		60	2.4	(1-8)	CI-					8.0	
				2.0	(16-8) 	CI-		SP	Tannish-grey to light-brown, poorly-graded, very fine san minor caliche lenses and nodules; dry.	d with		
10		ľ		1.5	M =	CI-			Bottom of boroholo at 10.0 fact		10.0	
									Bottom of borenole at 10.0 feet.			
	DATE STARTED 2/9/23 DRILLING CONTRACTOR Talon/LPE GROUND ELEVATION COMPLETED 2/9/23 DRILLING METHOD Air Rotary GROUND WATER LEVEL COGGED BY B. Cland CHECKED BY B. Wynne AT TIME OF DRILLING DOTES Amoos Federal 11 Central Tank Battery (CTB) Spill Site LATTUDE 32.318063 LONGITUDE -104.05264 Sample Type: IAAHand Auger; HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push; AR - Air Rotary Cuttings BOREHOLE DIAMETER 4.5" Well 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
DATE STARTED 2/9/23 DRILLING CONTRACTOR Talon/LPE GROUND ELEVATION COMPLETED 2/9/23 DRILLING METHOD Air Rotary GROUND WATER LEVEL LOGGED BY B. Cland CHECKED BY B. Wynne AT TIME OF DRILLING NOTES Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE 32.318063 LONGITUDE -104.05264 Sample Type: HA-Hand Auger, HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push; AR - Air Rotary Cuttings BOREHOLE DIAMETER 4.5° WELL DIAMETER												

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A	E	C	DM						BORING LOG - WE	ELL CONSTRUCTION DIAGRA	м	BORII	NG NUMBER AMOCO DB-14 PAGE 1 OF 1
CLIE	NT	Che	vron M	CBU						PROJECT NAME MCBU NM	Spill Sites		
PRO	JECI	r NU	MBER	6068	9116	; 606	89124			PROJECT LOCATION Lovin	g, Eddy Cou	unty, N	IM
										GROUND ELEVATION			
						LING	-						
		-				tral T						ONGI	FUDE -104.05273
Sampl	e Ty	oe:			Stom /	ugor	SSA Solid	Stom A	ugor: DP Direct Puel				
nA-na						uyer,				n, AK - All Kotary Cuttings	WELL DI		ER
o Depth (ft)	Sample Type	Drilling Log	Push/ Recovery (in.)	DId	Samp		Graphic Log	NSCS				Contact Depth	
L .				1.6	M é	5 CI-		SM	Medium-brown, poor 1-2% rounded calich	ly-graded, very fine silty sand with a e pebbles and nodules; dry.	pprox.		
				1.0									
	AR		09		Μŝ	CI-		MI	light-grev hard/indu	rated caliche with interstitial very fin	e sand and	3.0	
	-	1			Πī		$\begin{vmatrix} \times & \times & \times & \times \\ \times & \times & \times & \times \\ \times & \times &$		silt; dry.			4.0	
5	-	4			V V		$\left \begin{array}{c} \times & \times & \times & \times \\ \times & \times & \times & \times \\ \times & \times &$	ML	sand; dry.			5.0	
	-				V ×								
	Ц		0		V alla								
	◄		u u		V	2 0		SP	Tannish-grey to light	-brown, poorly-graded, fine to very fir	ne sand	8.0	
	1			0.4		2 Cl-			with minor caliche let	nses and hodules, dry.		10.0	
					<u></u>	2			В	ottom of borehole at 10.0 feet.		10.0	
	CLIENT Chevron MCBU PROJECT NAME MCBU NM Spill Sites PROJECT NUMBER 60689116; 60689124 PROJECT LOCATION Loving, Eddy County, NM DATE STARTED 2/9/23 DRILLING CONTRACTOR Talon/LPE GROUND ELEVATION COMPLETED 2/9/23 DRILLING METHOD Air Rotary GROUND WATER LEVEL COGGED BY B. Cland CHECKED BY B. Wynne LATITUDE 23.317393 NOTES Amoco Federal 11 Central Tank Battery (CTB) Spill Site. LATITUDE 23.317393 LONGITUDE _104.05273 Sample Type: Tak-And Auger, HSA-Hollow Stem Auger; SSA - Solid Stem Auger; DP- Direct Push; AR - Air Rotary Cuttings BOREHOLE DIAMETER 4.5" Well DIAMETER 4.0 Total of the group of the g												
	PROJECT NUMBER 60689116; 60689124 PROJECT LOCATION Loving, Eddy County, NM DATE STARTED 2/9/23 DRILLING CONTRACTOR Talon/LPE GROUND ELEVATION												
	DATE STARTED 2/9/23 DRILLING CONTRACTOR Talon/LPE GROUND ELEVATION COMPLETED 2/9/23 DRILLING METHOD Air Rotary GROUND WATER LEVEL LOGGED BY B. Cland CHECKED BY B. Wynne AT TIME OF DRILLING												

Revised Delineation Report and Remediation Plan

Appendix E

Photographic Documentation

.

AECOM	РНОТОС	RAPHIC LOG
Client Name:	Site Location:	Project Number:
Chevron MCBU	Amoco Federal 11 Central Tank Battery – Eddy County, New Mexico	60689116
Photo No. 001 Date: 08/23/22 Direction Photo Taken: Date: 08/23/22 Direction Photo Taken: Date: 08/23/22 Direction Photo Taken: Description: Looking east at heater treater and separators from soil boring location B-3. Red pin flags in central portion of photo indicate identified electrical utility lines.		

Photo No. 02 Date: 08/23/22 Direction Photo Taken: Image: Construction Photo Taken: Looking south Image: Construction Photo Taken: Description: Image: Construction Photo Total separators from soil boring location P-6. Red photo P-6. Red photo flag in botom-right corner indicates an identified electrical line.



Photo No. Date: 004 02/08/23 Direction Photo Taken:

Looking southwest

Description:

Looking west Talon LPE (AECOM subcontractor) operating Geoprobe drill rig and air compressor trailer to collect additional delineation soil samples, using air rotary drilling.





Photo No.	Date:
006	04/17/24
Direction Ph	oto
Taken:	

Looking north

Description:

Looking north at horizontal step-out locations DB-20A (foreground) through DB-20C (background), indicated by pink flags and spray paint, in northcentral portion of Amoco well pad.







treater visible in background.



Revised Delineation Report and Remediation Plan

Appendix F

Laboratory Analytical Reports

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ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2809-1

Laboratory Sample Delivery Group: 60689116 Client Project/Site: Amoco Fed. 11 CTB

For:

AECOM 19219 Katy Freeway Suite 100 Houston, Texas 77094

Attn: Mr. Wallace Gilmore



Authorized for release by: 9/5/2022 8:28:00 PM

John Builes, Project Manager (561)558-4549 John.Builes@et.eurofinsus.com of 259



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	Definitions/Glossary	
Client: AECOM		7
Project/Site: An	moco Fed. 11 CTB SDG: 60689116	
Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
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.	
GC Semi VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	1
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	

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	

4

5

Job ID: 890-2809-1 SDG: 60689116

Job ID: 890-2809-1

Client: AECOM

Laboratory: Eurofins Carlsbad

Project/Site: Amoco Fed. 11 CTB

Narrative

Job Narrative 890-2809-1

Receipt

The samples were received on 8/23/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33660 and analytical batch 880-33741 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33045/2-A) and (LCSD 880-33045/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

General Chemistry

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

Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: B-1 (0-1')

Project/Site: Amoco Fed. 11 CTB

Date Collected: 08/23/22 10:08 Date Received: 08/23/22 15:20

Sample Depth: 0 - 1

Client: AECOM

Lab Sample ID: 890-2809-1 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U F1	0.00199	mg/Kg		09/02/22 15:33	09/05/22 17:25	
Toluene	<0.00199	U F1	0.00199	mg/Kg		09/02/22 15:33	09/05/22 17:25	
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		09/02/22 15:33	09/05/22 17:25	
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		09/02/22 15:33	09/05/22 17:25	
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		09/02/22 15:33	09/05/22 17:25	
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		09/02/22 15:33	09/05/22 17:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130			09/02/22 15:33	09/05/22 17:25	
1,4-Difluorobenzene (Surr)	104		70 - 130			09/02/22 15:33	09/05/22 17:25	
Method: Total BTEX - Total B								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg	_		09/05/22 21:21	
Method: 8015 NM - Diesel Rar	nge Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	476		49.8	mg/Kg			08/29/22 10:06	
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/26/22 13:06	08/27/22 03:27	
Diesel Range Organics (Over C10-C28)	391		49.8	mg/Kg		08/26/22 13:06	08/27/22 03:27	
Oll Range Organics (Over C28-C36)	85.2		49.8	mg/Kg		08/26/22 13:06	08/27/22 03:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130			08/26/22 13:06	08/27/22 03:27	
o-Terphenyl	95		70 - 130			08/26/22 13:06	08/27/22 03:27	
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1730		24.9	mg/Kg			08/26/22 00:22	
lient Sample ID: B-1 (1-2	')					Lab San	nple ID: 890-	2809-2
ate Collected: 08/23/22 10:09 ate Received: 08/23/22 15:20 ample Depth: 1 - 2							Matri	ix: Solid
	bromatography	Solubla						
	A DESCRIPTION OF A DESC	CONTRACTOR						
Method: 300.0 - Anions, Ion C ^{Analyte}		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

		Clien	t Sample Re	sults				
Client: AECOM							Job ID: 890	-2809-1
Project/Site: Amoco Fed. 11 CTB							SDG: 60	0689116
Client Sample ID: B-1 (2-3')						Lab Sar	nple ID: 890-	2809-3
Date Collected: 08/23/22 10:10							-	x: Solid
Date Received: 08/23/22 15:20							Math	x. 00m
Sample Depth: 2 - 3								
-								
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1160		4.99	mg/Kg			08/26/22 00:58	
Client Sample ID: B-1 (3-4')						Lab San	nple ID: 890-	2809-4
Date Collected: 08/23/22 10:11							Matri	x: Solie
Date Received: 08/23/22 15:20								
Sample Depth: 3 - 4								
_ Method: 8021B - Volatile Organio	Compounde							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:45	
Toluene	< 0.00200		0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:45	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:45	
m-Xylene & p-Xylene	<0.00399		0.00399	mg/Kg		09/02/22 15:33	09/05/22 17:45	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:45	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 17:45	
Surragata	⁹ /Bassyon/	Qualifiar	Limits			Branarad	Analyzad	
Surrogate 4-Bromofluorobenzene (Surr)	% Recovery 116	Qualifier	70 - 130			Prepared 09/02/22 15:33	Analyzed 09/05/22 17:45	Dil Fa
1,4-Difluorobenzene (Surr)	100		70 - 130			09/02/22 15:33	09/05/22 17:45	
	100		101100			00,02,22 ,0.00	00,00,22 11.10	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/05/22 21:21	
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	54.5		50.0	mg/Kg			08/29/22 10:06	
- Method: 8015B NM - Diesel Rang	ne Organice (D							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		08/26/22 13:06	08/27/22 04:30	
(GRO)-C6-C10				0.0				
Diesel Range Organics (Over	54.5		50.0	mg/Kg		08/26/22 13:06	08/27/22 04:30	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 04:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130			08/26/22 13:06	08/27/22 04:30	
o-Terphenyl	101		70 - 130			08/26/22 13:06	08/27/22 04:30	
_ Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

Limits

70 - 130 70 - 130

RL

Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: B-2 (0-1')

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

Result Qualifier

Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

118

104

Result Qualifier

%Recovery

Project/Site: Amoco Fed. 11 CTB

Date Collected: 08/23/22 10:35 Date Received: 08/23/22 15:20

Sample Depth: 0 - 1

Client: AECOM

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-2809-5 Matrix: Solid

Analyzed	Dil Fac	
09/05/22 18:06	1	
09/05/22 18:06	1	
09/05/22 18:06	1	
09/05/22 18:06	1	
09/05/22 18:06	1	8
09/05/22 18:06	1	
		0
Analyzed	Dil Fac	9
09/05/22 18:06	1	
09/05/22 18:06	1	
Analyzed	Dil Fac	
09/05/22 21:21	1	

Total BTEX	<0.00396	U	0.00396	mg/Kg			09/05/22 21:21	1	
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)							ī
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	141		50.0	mg/Kg			08/29/22 10:06	1	
Method: 8015B NM - Diesel Rang Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 03:48	1	
Diesel Range Organics (Over C10-C28)	82.8		50.0	mg/Kg		08/26/22 13:06	08/27/22 03:48	1	
Oll Range Organics (Over	57.7		50.0	mg/Kg		08/26/22 13:06	08/27/22 03:48	1	

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

D

Prepared

09/02/22 15:33

09/02/22 15:33

09/02/22 15:33

09/02/22 15:33

09/02/22 15:33

09/02/22 15:33

Prepared

09/02/22 15:33

09/02/22 15:33

Prepared

Oll Range Organics (Over C28-C36)	57.7		50.0	mg/Kg		08/26/22 13:06	08/27/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			08/26/22 13:06	08/27/22 03:48	1
o-Terphenyl	90		70 - 130			08/26/22 13:06	08/27/22 03:48	1
Method: 300.0 - Anions, Ion Ch Analyte	• • • •	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		4.99	mg/Kg			08/26/22 01:17	1
Client Sample ID: B-2 (1-2))					Lab Sar	nple ID: 890-	2809-6
Date Collected: 08/23/22 10:36							Matri	x: Solid

Date Collected: 08/23/22 10:36 Date Received: 08/23/22 15:20

Sample Depth: 1 - 2

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		5.01	mg/Kg			08/26/22 22:17	1

		Clien	t Sample Re	sults				
Client: AECOM							Job ID: 890	-2809-1
Project/Site: Amoco Fed. 11 CTB							SDG: 60)689116
Client Sample ID: B-2 (2-3')						Lab San	nple ID: 890-	2809-7
Date Collected: 08/23/22 10:37								x: Solid
Date Received: 08/23/22 15:20								
Sample Depth: 2 - 3								
_		0.1.1.1.						
Method: 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.04	mg/Kg			08/26/22 22:27	1
Client Sample ID: B-2 (3-4')						Lah San	nple ID: 890-	2809-8
Date Collected: 08/23/22 10:38						Lub Our		x: Solid
Date Received: 08/23/22 15:20 Sample Depth: 3 - 4							Wath	x. 00110
_ Method: 8021B - Volatile Organic	Compounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/02/22 15:33	09/05/22 18:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130			09/02/22 15:33	09/05/22 18:26	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/05/22 21:21	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.2		49.9	mg/Kg			08/29/22 10:06	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/26/22 13:06	08/27/22 04:09	1
(GRO)-C6-C10 Diesel Range Organics (Over	54.2		49.9	mg/Kg		08/26/22 13:06	08/27/22 04:09	1
C10-C28)	04.2			···ə				•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/26/22 13:06	08/27/22 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/26/22 13:06	08/27/22 04:09	1
o-Terphenyl	93		70 - 130			08/26/22 13:06	08/27/22 04:09	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.05	mg/Kg			08/26/22 22:36	1

Job ID: 890-2809-1 SDG: 60689116

Project/Site: Amoco Fed. 11 CTB Client Sample ID: B-3 (0-1')

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 08/23/22 11:10 Date Received: 08/23/22 15:20

Sample Depth: 0 - 1

Client: AECOM

Lab Sample ID: 890-2809-9 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/02/22 15:33	09/05/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	129		70 - 130			09/02/22 15:33	09/05/22 18:47	
1,4-Difluorobenzene (Surr)	81		70 - 130			09/02/22 15:33	09/05/22 18:47	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/05/22 21:21	1
Mathedu 0045 NM - Dissail Damas	O							
Method: 8015 NM - Diesel Range			RL	Unit		Bronorod	Applyrod	Dil Fac
Analyte Fotal TPH	<pre></pre>	Qualifier	·		D	Prepared	Analyzed 08/29/22 10:06	
	<50.0	U	50.0	mg/Kg			08/29/22 10:06	
Method: 8015B NM - Diesel Range	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 04:51	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 04:51	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 04:51	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	80		70 - 130			08/26/22 13:06	08/27/22 04:51	
p-Terphenyl	88		70 - 130			08/26/22 13:06	08/27/22 04:51	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.15		0.0497	mg/Kg			08/26/22 22:45	1
lient Sample ID: B-3 (1-2')						Lab Sam	ple ID: 890-2	809-10
ate Collected: 08/23/22 11:11							-	x: Solic
ate Received: 08/23/22 15:20								
ample Depth: 1 - 2								
ate Received: 08/23/22 15:20 ample Depth: 1 - 2 Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

		Clien	t Sample Re	sults				
Client: AECOM							Job ID: 890	
roject/Site: Amoco Fed. 11 CTB							SDG: 60	068911
lient Sample ID: B-3 (2-3')						Lab Sam	ple ID: 890-2	809-1
ate Collected: 08/23/22 11:12							-	x: Soli
ate Received: 08/23/22 15:20								
Sample Depth: 2 - 3								
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	524		5.02	mg/Kg			08/26/22 23:04	
Client Sample ID: B-3 (3-4')						Lab Sam	ple ID: 890-2	809-1
Date Collected: 08/23/22 11:13							•	x: Soli
Date Received: 08/23/22 15:20								
Sample Depth: 3 - 4								
- Method: 8021B - Volatile Organi	c Compounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:08	
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:08	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:08	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 19:08	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:08	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 19:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	129		70 - 130			09/02/22 15:33	09/05/22 19:08	
1,4-Difluorobenzene (Surr)	95		70 - 130			09/02/22 15:33	09/05/22 19:08	
- Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/05/22 21:21	
- Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			08/29/22 10:06	
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 05:12	
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 05:12	
C10-C28)		-						
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 13:06	08/27/22 05:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130			08/26/22 13:06	08/27/22 05:12	
o-Terphenyl	105		70 - 130			08/26/22 13:06	08/27/22 05:12	
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	680		5.04	mg/Kg			08/26/22 02:59	

Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: B-4 (0-1')

Project/Site: Amoco Fed. 11 CTB

Date Collected: 08/23/22 11:40 Date Received: 08/23/22 15:20

Sample Depth: 0 - 1

Client: AECOM

Analyte

Benzene

Lab Sample ID: 890-2809-13

Matrix: Solid

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:28	
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:28	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:28	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 19:28	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 19:28	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/02/22 15:33	09/05/22 19:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			09/02/22 15:33	09/05/22 19:28	
1,4-Difluorobenzene (Surr)	101		70 - 130			09/02/22 15:33	09/05/22 19:28	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/05/22 21:21	
Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte	Result	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 08/29/22 10:06	Dil Fa
Aethod: 8015B NM - Diesel Rar Malyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		08/26/22 10:36	08/28/22 05:12	
GRO)-C6-C10		-						
Diesel Range Organics (Over C10-C28)	837		50.0	mg/Kg		08/26/22 10:36	08/28/22 05:12	
Oll Range Organics (Over C28-C36)	222		50.0	mg/Kg		08/26/22 10:36	08/28/22 05:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	104		70 - 130			08/26/22 10:36	08/28/22 05:12	
o-Terphenyl	101		70 - 130			08/26/22 10:36	08/28/22 05:12	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2930		25.1	mg/Kg			08/26/22 03:08	:
lient Sample ID: B-DUP-07	1					Lab Sam	ple ID: 890-2	809-14
ate Collected: 08/23/22 00:00							Matri	x: Soli
ate Received: 08/23/22 15:20								

Toluene	<0.00201	U	0.00201	mg/Kg	09/02/22 15:33	09/05/22 19:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	09/02/22 15:33	09/05/22 19:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	09/02/22 15:33	09/05/22 19:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	09/02/22 15:33	09/05/22 19:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	09/02/22 15:33	09/05/22 19:49	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130		09/02/22 15:33	09/05/22 19:49	1

RL

0.00201

Unit

mg/Kg

D

Prepared

09/02/22 15:33

Result Qualifier

<0.00201 U

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Analyzed

09/05/22 19:49

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Dil Fac

1

Client Sample Results

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Job ID: 890-2809-1 SDG: 60689116

Matrix: Solid

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Lab Sample ID: 890-2809-14

Client Sample ID: B-DUP-01

Project/Site: Amoco Fed. 11 CTB

Date Collected: 08/23/22 00:00 Date Received: 08/23/22 15:20

Client: AECOM

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	103		70 - 130			09/02/22 15:33	09/05/22 19:49	
Method: Total BTEX - Total BTE	X Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402		0.00402	mg/Kg			09/05/22 21:21	
-				5 5				
Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	1020		50.0	mg/Kg			08/29/22 10:06	
- Method: 8015B NM - Diesel Rar	an Organics (D							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	-	50.0	mg/Kg		08/26/22 10:36	08/28/22 05:34	
(GRO)-C6-C10		-						
Diesel Range Organics (Over	804		50.0	mg/Kg		08/26/22 10:36	08/28/22 05:34	
C10-C28)								
Oll Range Organics (Over	218		50.0	mg/Kg		08/26/22 10:36	08/28/22 05:34	
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			08/26/22 10:36	08/28/22 05:34	
o-Terphenyl	109		70 - 130			08/26/22 10:36	08/28/22 05:34	
- Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2260		24.9	mg/Kg			08/26/22 03:35	
Client Sample ID: B-4 (1-2')						Lab Sam	ple ID: 890-2	
Date Collected: 08/23/22 11:41							Matri	x: Soli
Date Received: 08/23/22 15:20								
Sample Depth: 1 - 2								
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1740		24.9	mg/Kg			08/26/22 03:45	
lient Sample ID: B-4 (2-3')						l ah Sam	ple ID: 890-2	800_1
ate Collected: 08/23/22 11:42						Lab Gam	•	
ate Received: 08/23/22 11:42							Iviati	x: Soli
ample Depth: 2 - 3								
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: B-4 (3-4')

Project/Site: Amoco Fed. 11 CTB

Date Collected: 08/23/22 11:43 Date Received: 08/23/22 15:20

Sample Depth: 3 - 4

Client: AECOM

Lab Sample ID: 890-2809-17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 20:09	
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 20:09	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 20:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 20:09	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 15:33	09/05/22 20:09	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 15:33	09/05/22 20:09	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	124		70 - 130			09/02/22 15:33	09/05/22 20:09	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/02/22 15:33	09/05/22 20:09	1
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/05/22 21:21	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/22 10:06	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		08/26/22 10:36	08/28/22 04:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/26/22 10:36	08/28/22 04:30	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/26/22 10:36	08/28/22 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			08/26/22 10:36	08/28/22 04:30	1
o-Terphenyl	99		70 - 130			08/26/22 10:36	08/28/22 04:30	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		25.2	mg/Kg			08/26/22 04:03	5
Client Sample ID: B-5 (0-1')						Lab Sam	ple ID: 890-2	809-18
ate Collected: 08/23/22 12:07							Matri	ix: Solid
ate Received: 08/23/22 15:20								
ample Depth: 0 - 1								
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro Analyte	• • •	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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		Clien	it Sample Res	sults				
Client: AECOM Project/Site: Amoco Fed. 11 CTB							Job ID: 890 SDG: 60)-2809-1)689116
Client Sample ID: B-5 (1-2') Date Collected: 08/23/22 12:08	1					Lab Sam	ple ID: 890-2	809-19 ix: Solid
Date Received: 08/23/22 15:20							Wath	. 30 10
Sample Depth: 1 - 2								
-								
Method: 300.0 - Anions, Ion Ch				11-14		Dramanad	Analyzad	
Analyte Chloride	Kesuit	Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/26/22 04:21	Dil Fac
			1.00	1119/119			00/20/22 01:21	
Client Sample ID: B-5 (2-3'))					Lab Sam	ple ID: 890-2	809-20
Date Collected: 08/23/22 12:09							Matri	ix: Solid
Date Received: 08/23/22 15:20								
Sample Depth: 2 - 3								
- Method: 8021B - Volatile Organ	vic Compounds (CC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	-	0.00198	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
Toluene	< 0.00198		0.00198	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/02/22 15:33	09/05/22 20:30	1
0	% D	0	1 :			Durante	A	D# 5-
Surrogate	%Recovery 126	Qualifier				Prepared 09/02/22 15:33	Analyzed 09/05/22 20:30	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	86		70 - 130 70 - 130			09/02/22 15:33	09/05/22 20:30	1
			101100			00,02,22 10.00	00,00,22 20.00	,
Method: Total BTEX - Total BTE	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/05/22 21:21	1
Method: 8015 NM - Diesel Rang			ы	11-14	_	Dremened	Analyzad	
Analyte Total TPH		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<49.9	0	49.9	mg/Kg			08/29/22 10:06	1
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/26/22 10:36	08/28/22 04:51	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		08/26/22 10:36	08/28/22 04:51	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/26/22 10:36	08/28/22 04:51	1
	1010	•				00,20,22 10.00	00,20,22 0 110 1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			08/26/22 10:36	08/28/22 04:51	1
o-Terphenyl	102		70 - 130			08/26/22 10:36	08/28/22 04:51	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		4.96	mg/Kg			08/26/22 04:31	1
lient Comple ID: TD 4						Lob Corre		000 04
Client Sample ID: TB-1						Lab Sam	ple ID: 890-2	
Date Collected: 08/23/22 00:00 Date Received: 08/23/22 15:20							Matrix	x: Water
_								
Method: 8021B - Volatile Organ					_	_ .		_ =
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/L			09/02/22 09:00	1

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wethod: 8021B - volatile Organic C	ompounas (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			09/02/22 09:00	1

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Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: TB-1

Project/Site: Amoco Fed. 11 CTB

Client: AECOM

Date Collected: 08/23/22 00:00 Date Received: 08/23/22 15:20

Lab Sample ID:	890-2809-21
	Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	< 0.00200	U *1	0.00200	mg/L			09/02/22 09:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			09/02/22 09:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/L			09/02/22 09:00	1
o-Xylene	<0.00200	U	0.00200	mg/L			09/02/22 09:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			09/02/22 09:00	1
Methyl tert-butyl ether	<0.0100	U	0.0100	mg/L			09/02/22 09:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130		-		09/02/22 09:00	1
4-Bromofluorobenzene (Surr)	117		70 - 130				09/02/22 09:00	1

Project/Site: Amoco Fed. 11 CTB

Job ID: 890-2809-1 SDG: 60689116

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: AECOM

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		.
890-2809-1	B-1 (0-1')	114	104		
890-2809-1 MS	B-1 (0-1')	141 S1+	103		
890-2809-1 MSD	B-1 (0-1')	110	110		17
890-2809-4	B-1 (3-4')	116	100		
890-2809-5	B-2 (0-1')	118	104		- 5
890-2809-8	B-2 (3-4')	112	97		
890-2809-9	B-3 (0-1')	129	81		
890-2809-12	B-3 (3-4')	129	95		
890-2809-13	B-4 (0-1')	115	101		
890-2809-14	B-DUP-01	123	103		
890-2809-17	B-4 (3-4')	124	82		
890-2809-20	B-5 (2-3')	126	86		
LCS 880-33660/1-A	Lab Control Sample	128	101		
LCSD 880-33660/2-A	Lab Control Sample Dup	128	102		
MB 880-33660/5-A	Method Blank	108	94		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluorober	zene (Surr)				

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

				Percent Surrogate Recovery (Acceptance Limits)
		DFBZ1	BFB1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2809-21	TB-1	102	117	
LCS 880-33496/34	Lab Control Sample	95	114	
LCSD 880-33496/35	Lab Control Sample Dup	103	119	
MB 880-33416/5-A	Method Blank	80	77	
MB 880-33496/39	Method Blank	78	79	

Surrogate Legend

DFBZ = 1,4-Difluorobenzene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
-2809-1	B-1 (0-1')	88	95	
)-2809-4	B-1 (3-4')	93	101	
0-2809-5	B-2 (0-1')	84	90	
-2809-8	B-2 (3-4')	86	93	
-2809-9	B-3 (0-1')	80	88	
-2809-12	B-3 (3-4')	94	105	
2809-13	B-4 (0-1')	104	101	
-2809-14	B-DUP-01	116	109	
-2809-17	B-4 (3-4')	99	99	

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Prep Type: Total/NA

Prep Type: Total/NA

Lab Control Sample Dup

Method Blank

Method Blank

LCSD 880-33061/3-A

MB 880-33045/1-A

MB 880-33061/1-A

Surrogate Legend 1CO = 1-Chlorooctane OTPH = o-Terphenyl 5 6

		Sunoya	le Sum	na y
Client: AECOM				Job ID: 890-2809-1
Project/Site: Amoco Fe	d. 11 CTB			SDG: 60689116
Method: 8015B NM	- Diesel Range Organics	s (DRO) (GC) (Contir	lued)
Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2809-20	B-5 (2-3')	101	102	
LCS 880-33045/2-A	Lab Control Sample	184 S1+	176 S1+	
LCS 880-33061/2-A	Lab Control Sample	93	106	
LCSD 880-33045/3-A	Lab Control Sample Dup	157 S1+	153 S1+	

103

96

94

92

95

80

Client: AECOM Project/Site: Amoco Fed. 11 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33416/5-A						Client Sa	mple ID: Metho	d Blank
Matrix: Water							Prep Type: 1	Total/NA
Analysis Batch: 33496							Prep Batch	n: <mark>33416</mark>
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L		08/31/22 09:38	09/01/22 11:24	1
Toluene	<0.00200	U	0.00200	mg/L		08/31/22 09:38	09/01/22 11:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/L		08/31/22 09:38	09/01/22 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/L		08/31/22 09:38	09/01/22 11:24	1
o-Xylene	<0.00200	U	0.00200	mg/L		08/31/22 09:38	09/01/22 11:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/L		08/31/22 09:38	09/01/22 11:24	1
Methyl tert-butyl ether	<0.0100	U	0.0100	mg/L		08/31/22 09:38	09/01/22 11:24	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130			08/31/22 09:38	09/01/22 11:24	1
4-Bromofluorobenzene (Surr)	77		70 - 130			08/31/22 09:38	09/01/22 11:24	1
Lab Sample ID: MB 880-33496/39						Client Sa	mple ID: Metho	d Blank
Matrix: Water							Prep Type: 1	
Analysis Batch: 33496							Пер Турс.	
Analysis Baten. 00400	мв	мв						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/L			09/02/22 00:30	1
Toluene	<0.00200	U	0.00200	mg/L			09/02/22 00:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/L			09/02/22 00:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/L			09/02/22 00:30	1
o-Xylene	<0.00200	U	0.00200	mg/L			09/02/22 00:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/L			09/02/22 00:30	1
Methyl tert-butyl ether	<0.0100	U	0.0100	mg/L			09/02/22 00:30	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78		70 - 130				09/02/22 00:30	1
4-Bromofluorobenzene (Surr)	79		70 - 130				09/02/22 00:30	1
Lab Sample ID: LCS 880-33496/34					·	lient Sample I	D: Lab Control	Sample
Matrix: Water						and the sample i	Prep Type: 1	
WathA. Water							Fich type:	ισιαι/ΙΝΑ

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D 0.100 Benzene 0.09235 mg/L 92 70 - 130 Toluene 0.100 0.08715 87 70 - 130 mg/L Ethylbenzene 0.100 0.09242 92 70 - 130 mg/L m-Xylene & p-Xylene 0.200 0.1884 mg/L 94 70 - 130 o-Xylene 0.100 0.1100 mg/L 110 70 - 130 Methyl tert-butyl ether 0.500 0.5325 mg/L 106 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	114		70 - 130

5

Job ID: 890-2809-1

Client: AECOM Project/Site: Amoco Fed. 11 CTB Job ID: 890-2809-1 SDG: 60689116

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 33660

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

Lab Sample ID: LCSD 880-33496/35

Matrix: Water Analysis Batch: 33496

Analysis Batch: 33496	Spike	1.050	LCSD				%Rec		RPD
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1079		mg/L		108	70 - 130	16	20
Toluene	0.100	0.1076	*1	mg/L		108	70 - 130	21	20
Ethylbenzene	0.100	0.1051		mg/L		105	70 - 130	13	20
m-Xylene & p-Xylene	0.200	0.2119		mg/L		106	70 - 130	12	20
o-Xylene	0.100	0.1214		mg/L		121	70 - 130	10	20
Methyl tert-butyl ether	0.500	0.6058		mg/L		121	70 - 130	13	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	119		70 - 130

Lab Sample ID: MB 880-33660/5-A Matrix: Solid

Analysis Batch: 33741

-	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/02/22 15:33	09/05/22 17:03	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130			09/02/22 15:33	09/05/22 17:03	1
4-Bromofluorobenzene (Surr)	108		70 - 130			09/02/22 15:33	09/05/22 17:03	1

Lab Sample ID: LCS 880-33660/1-A Matrix: Solid

Analysis Batch: 33741							Prep I	Batch: 33660
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09189		mg/Kg		92	70 - 130	
Toluene	0.100	0.08925		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09337		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	128		70 - 130

Lab Sample ID: LCSD 880-33660/2-A Matrix: Solid				Clier	nt Sam	nple ID:	Lab Contro Prep 1	l Sampl Type: To	
Analysis Batch: 33741							Prep	Batch:	33660
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09911		mg/Kg		99	70 - 130	8	35

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Client: AECOM Project/Site: Amoco Fed. 11 CTB Job ID: 890-2809-1 SDG: 60689116

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

	50/2-A					Cile	nt Sam	ipie iD: i	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 33741										Batch:	
			Spike		LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09836		mg/Kg		98	70 - 130	10	3
Ethylbenzene			0.100	0.1033		mg/Kg		103	70 - 130	10	3
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130	10	35
o-Xylene			0.100	0.1281		mg/Kg		128	70 - 130	10	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1,4-Difluorobenzene (Surr)	102		70 - 130								
4-Bromofluorobenzene (Surr)	128		70 - 130								
								Cli	ent Sample	e ID: B-1	(0-1'
Lab Sample ID: 890-2809-1 MS Matrix: Solid								Cli	Prep 1	e ID: B-1 Type: Tot Batch: 3	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid	Sample	Sample	Spike	MS	MS			Cli	Prep 1	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741	Sample	Sample Qualifier			MS Qualifier	Unit	D	Cli %Rec	Prep 1 Prep	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte	Sample	Qualifier	Spike		Qualifier	- <mark>Unit</mark> mg/Kg	D		Prep 1 Prep %Rec	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene	Sample Result	Qualifier U F1	Spike Added	Result	Qualifier F1		D	%Rec	Prep 1 Prep %Rec Limits	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199	Qualifier U F1 U F1	Spike 	Result 0.05599	Qualifier F1 F1	mg/Kg	<u>D</u>	%Rec	Prep 1 Prep %Rec Limits 70 - 130	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene	Sample Result <0.00199 <0.00199	Qualifier U F1 U F1 U F1 U F1	Spike Added 0.0998 0.0998	Result 0.05599 0.05008	Qualifier F1 F1 F1	mg/Kg mg/Kg	<u> </u>	%Rec 56 50	Prep 1 Prep %Rec Limits 70 - 130 70 - 130	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199	Qualifier U F1 U F1 U F1 U F1 U F1	Spike Added 0.0998 0.0998 0.0998	Result 0.05599 0.05008 0.04944	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 56 50 50	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To	tal/N/
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398	Qualifier U F1 U F1 U F1 U F1 U F1 U F1	Spike Added 0.0998 0.0998 0.0998 0.200	Result 0.05599 0.05008 0.04944 0.1012	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 56 50 50 51	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U F1 U F1 U F1 U F1 U F1 U F1 WS	Spike Added 0.0998 0.0998 0.0998 0.200	Result 0.05599 0.05008 0.04944 0.1012	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 56 50 50 51	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA
Lab Sample ID: 890-2809-1 MS Matrix: Solid Analysis Batch: 33741 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>MS</i>	Qualifier U F1 U F1 U F1 U F1 U F1 U F1 WS	Spike Added 0.0998 0.0998 0.0998 0.200 0.0998	Result 0.05599 0.05008 0.04944 0.1012	Qualifier F1 F1 F1 F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 56 50 50 51	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To	tal/NA

Lab Sample ID: 890-2809-1 MSD Matrix: Solid Analysis Batch: 33741

4-Bromofluorobenzene (Surr)

Analysis Batch: 33741									Prep	Batch:	33660
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.100	0.07600		mg/Kg		76	70 - 130	30	35
Toluene	<0.00199	U F1	0.100	0.06048	F1	mg/Kg		60	70 - 130	19	35
Ethylbenzene	<0.00199	U F1	0.100	0.04987	F1	mg/Kg		50	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.09832	F1	mg/Kg		49	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.100	0.05860	F1	mg/Kg		58	70 - 130	1	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,4-Difluorobenzene (Surr)			70 - 130								

70 - 130

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

110

Lab Sample ID: MB 880-33045/1-A Matrix: Solid Analysis Batch: 33100		МВ				Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/26/22 10:36	08/27/22 20:44	1
(GRO)-C6-C10								

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Client Sample ID: B-1 (0-1')

Prep Type: Total/NA

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Client: AECOM Project/Site: Amoco Fed. 11 CTB

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

Lab Sample ID: MB 880-33045	/1 -A										Client Sa	ample ID: Me	thod	Blank
Matrix: Solid												Prep Typ	e: To	tal/NA
Analysis Batch: 33100												Prep Ba	tch:	33045
		ΜВ	МВ											
Analyte	Re	sult	Qualifier		RL			Unit		D	Prepared	Analyzed		Dil Fac
Diesel Range Organics (Over	<	50.0	U		50.0			mg/Kg		_	08/26/22 10:36	08/27/22 20:4	4	1
C10-C28) Oll Range Organics (Over C28-C36)	<	50.0	U		50.0			mg/Kg			08/26/22 10:36	08/27/22 20:4	4	1
		ΜВ	МВ											
Surrogate	%Reco	verv	Qualifier	Lim	its						Prepared	Analyzed		Dil Fac
1-Chlorooctane		95			130						08/26/22 10:36	08/27/22 20:4	14	
o-Terphenyl		96		70 -							08/26/22 10:36	08/27/22 20:4		1
Lab Sample ID: LCS 880-3304	5/2-A									С	lient Sample	ID: Lab Cont	rol S	ample
Matrix: Solid												Prep Typ	e: To	tal/NA
Analysis Batch: 33100												Prep Ba		
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Quali	fier	Unit		D %Rec	Limits		
Gasoline Range Organics				1000		941.4		-	mg/Kg		94	70 - 130		
(GRO)-C6-C10						• • • • •								
Diesel Range Organics (Over				1000		1055			mg/Kg		106	70 - 130		
C10-C28)									5 5					
	LCS	105												
Surrogate	%Recovery			Limits										
1-Chlorooctane	184			70 - 130										
p-Terphenyl	176			70 - 130 70 - 130										
Matrix: Solid Analysis Batch: 33100												Prep Typ Prep Ba		
				Spike		LCSD	LCSD)				%Rec		RPD
Analyte				Added		Result	Quali	fier	Unit		D %Rec	Limits	RPD	Limi
Gasoline Range Organics				1000		794.4			mg/Kg		79	70 - 130	17	20
GRO)-C6-C10														
Diesel Range Organics (Over				1000		913.0			mg/Kg		91	70 - 130	14	20
C10-C28)														
	LCSD	LCS	D											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	157	S1+		70 - 130										
o-Terphenyl	153	S1+		70 - 130										
Lab Sample ID: MB 880-33061	/1- A										Client Sa	ample ID: Me		
Matrix: Solid												Prep Typ	e: To	tal/N/
Analysis Batch: 33016												Prep Ba	tch:	3306
		MB	MB											
Analyte	Re	sult	Qualifier		RL			Unit		D	Prepared	Analyzed		Dil Fa
Basoline Range Organics	<	50.0	U		50.0			mg/Kg			08/26/22 13:06	08/26/22 20:3	32	
GRO)-C6-C10														
Diesel Range Organics (Over	<	50.0	U		50.0			mg/Kg			08/26/22 13:06	08/26/22 20:3	32	
C10-C28)													_	
Oll Range Organics (Over C28-C36)	<	50.0	U		50.0			mg/Kg			08/26/22 13:06	08/26/22 20:3	32	
		MB	MВ											
Surrogate	%Reco		мв Qualifier	Lim	its						Prepared	Analyzed		Dil Fac

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08/26/22 13:06 08/26/22 20:32

1-Chlorooctane

70 - 130

80

1

Lab Sample ID: MB 880-33061/1-A

QC Sample Results

Client: AECOM Project/Site: Amoco Fed. 11 CTB

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

Job ID: 890-2809-1 SDG: 60689116

Client Sample ID: Method Blank

	3

Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 33016									Prep	Batch:	33061
		MB MB									
Surrogate	%Reco	very Qualifier	Limits				F	Prepared	Analyz	ed	Dil Fac
o-Terphenyl		94	70 - 130				08/2	26/22 13:06	08/26/22	20:32	1
Lab Sample ID: LCS 880-3306	61/2-A						Client	t Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid										Type: To	
Analysis Batch: 33016										Batch:	
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	896.9		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	884.2		mg/Kg		88	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	106		70 - 130								
Lab Sample ID: LCSD 880-33	061/3-A					Cli	ent San	nple ID: L	ab Contro	l Sampl	e Dur
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 33016									Prep	Batch:	33061
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10			1000	921.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	899.8		mg/Kg		90	70 - 130	2	20
	LCSD	LCSD									
Surrogate	0/ D	0									
ounoguto	%Recovery	Qualifier	Limits								

Method: 300.0 - Anions, Ion Chromatography

o-Terphenyl

103

Lab Sample ID: MB 880-32944/1-A Matrix: Solid Analysis Batch: 33093									Client S	ample ID: Metho Prep Type:	
	МВ	MB									
Analyte	Result	Qualifier		RL		Unit		DI	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00		mg/k	ίg			08/25/22 23:54	1
_ Lab Sample ID: LCS 880-32944/2-A								Clien	t Sample	ID: Lab Control	Sample
Matrix: Solid										Prep Type:	Soluble
Analysis Batch: 33093											
			Spike		LCS	LCS				%Rec	
Analyte			Added	1	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250		231.7		mg/Kg		93	90 - 110	

70 - 130

Project/Site: Amoco Fed. 11 CTB

Client: AECOM

Job ID: 890-2809-1 SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-32944/3	- A					Clie	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid								· · · ·	Prep	Type: So	oluble
Analysis Batch: 33093											
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	226.3		mg/Kg		91	90 - 110	2	20
 Lab Sample ID: 890-2809-1 MS								Cli	ent Sample	e ID: B-1	(0-1')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 33093											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1730		1250	2952		mg/Kg		98	90 - 110		
Lab Sample ID: 890-2809-1 MSD								Cli	ent Sample	e ID: B-1	(0-1')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 33093											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1730		1250	2899		mg/Kg		94	90 - 110	2	20
 Lab Sample ID: 890-2809-11 MS								Cli	ent Sample	e ID: B-3	s (2-3')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 33093											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	524		251	757.7		mg/Kg		93	90 - 110		
Lab Sample ID: 890-2809-11 MSD								Cli	ent Sample	e ID: B-3	6 (2-3')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 33093											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	524		251	776.1		mg/Kg	_	101	90 - 110	2	20

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QC Association Summary

Client: AECOM Project/Site: Amoco Fed. 11 CTB Page 72 of 259

Job ID: 890-2809-1 SDG: 60689116

GC VOA

Prep Batch: 33416

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-33416/5-A	Method Blank	Total/NA	Water	5035	
nalysis Batch: 33496					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2809-21	TB-1	Total/NA	Water	8021B	
MB 880-33416/5-A	Method Blank	Total/NA	Water	8021B	33416
MB 880-33496/39	Method Blank	Total/NA	Water	8021B	
LCS 880-33496/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-33496/35	Lab Control Sample Dup	Total/NA	Water	8021B	
rep Batch: 33660					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Total/NA	Solid	5035	
890-2809-4	B-1 (3-4')	Total/NA	Solid	5035	
890-2809-5	B-2 (0-1')	Total/NA	Solid	5035	
890-2809-8	B-2 (3-4')	Total/NA	Solid	5035	
890-2809-9	B-3 (0-1')	Total/NA	Solid	5035	
890-2809-12	B-3 (3-4')	Total/NA	Solid	5035	
890-2809-13	B-4 (0-1')	Total/NA	Solid	5035	
890-2809-14	B-DUP-01	Total/NA	Solid	5035	
890-2809-17	B-4 (3-4')	Total/NA	Solid	5035	
890-2809-20	B-5 (2-3')	Total/NA	Solid	5035	
MB 880-33660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2809-1 MS	B-1 (0-1')	Total/NA	Solid	5035	
890-2809-1 MSD	B-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 33741

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Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Total/NA	Solid	8021B	33660
890-2809-4	B-1 (3-4')	Total/NA	Solid	8021B	33660
890-2809-5	B-2 (0-1')	Total/NA	Solid	8021B	33660
890-2809-8	B-2 (3-4')	Total/NA	Solid	8021B	33660
890-2809-9	B-3 (0-1')	Total/NA	Solid	8021B	33660
890-2809-12	B-3 (3-4')	Total/NA	Solid	8021B	33660
890-2809-13	B-4 (0-1')	Total/NA	Solid	8021B	33660
890-2809-14	B-DUP-01	Total/NA	Solid	8021B	33660
890-2809-17	B-4 (3-4')	Total/NA	Solid	8021B	33660
890-2809-20	B-5 (2-3')	Total/NA	Solid	8021B	33660
MB 880-33660/5-A	Method Blank	Total/NA	Solid	8021B	33660
LCS 880-33660/1-A	Lab Control Sample	Total/NA	Solid	8021B	33660
LCSD 880-33660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33660
890-2809-1 MS	B-1 (0-1')	Total/NA	Solid	8021B	33660
890-2809-1 MSD	B-1 (0-1')	Total/NA	Solid	8021B	33660

Analysis Batch: 33779

Lab Sample ID 890-2809-1	Client Sample ID B-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-2809-4	B-1 (3-4')	Total/NA	Solid	Total BTEX	
890-2809-5	B-2 (0-1')	Total/NA	Solid	Total BTEX	

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Client: AECOM Project/Site: Amoco Fed. 11 CTB

GC VOA (Continued)

Analysis Batch: 33779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2809-8	B-2 (3-4')	Total/NA	Solid	Total BTEX	
890-2809-9	B-3 (0-1')	Total/NA	Solid	Total BTEX	
890-2809-12	B-3 (3-4')	Total/NA	Solid	Total BTEX	
890-2809-13	B-4 (0-1')	Total/NA	Solid	Total BTEX	
890-2809-14	B-DUP-01	Total/NA	Solid	Total BTEX	
890-2809-17	B-4 (3-4')	Total/NA	Solid	Total BTEX	
890-2809-20	B-5 (2-3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 33016

090-2009-20	B-3 (2-3)	Total/NA	Solid						
GC Semi VOA	GC Semi VOA								
Analysis Batch: 3301	6					9			
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch				
890-2809-1	B-1 (0-1')	Total/NA	Solid	8015B NM	33061				
890-2809-4	B-1 (3-4')	Total/NA	Solid	8015B NM	33061				
890-2809-5	B-2 (0-1')	Total/NA	Solid	8015B NM	33061				
890-2809-8	B-2 (3-4')	Total/NA	Solid	8015B NM	33061				
890-2809-9	B-3 (0-1')	Total/NA	Solid	8015B NM	33061				
890-2809-12	B-3 (3-4')	Total/NA	Solid	8015B NM	33061				
MB 880-33061/1-A	Method Blank	Total/NA	Solid	8015B NM	33061	13			
LCS 880-33061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33061				
LCSD 880-33061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33061				

Prep Batch: 33045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2809-13	B-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-2809-14	B-DUP-01	Total/NA	Solid	8015NM Prep	
890-2809-17	B-4 (3-4')	Total/NA	Solid	8015NM Prep	
890-2809-20	B-5 (2-3')	Total/NA	Solid	8015NM Prep	
MB 880-33045/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33045/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33045/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 33061

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-2809-4	B-1 (3-4')	Total/NA	Solid	8015NM Prep	
890-2809-5	B-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-2809-8	B-2 (3-4')	Total/NA	Solid	8015NM Prep	
890-2809-9	B-3 (0-1')	Total/NA	Solid	8015NM Prep	
890-2809-12	B-3 (3-4')	Total/NA	Solid	8015NM Prep	
MB 880-33061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33100

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2809-13	B-4 (0-1')	Total/NA	Solid	8015B NM	33045
890-2809-14	B-DUP-01	Total/NA	Solid	8015B NM	33045
890-2809-17	B-4 (3-4')	Total/NA	Solid	8015B NM	33045
890-2809-20	B-5 (2-3')	Total/NA	Solid	8015B NM	33045
MB 880-33045/1-A	Method Blank	Total/NA	Solid	8015B NM	33045

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Job ID: 890-2809-1 SDG: 60689116

Client: AECOM Project/Site: Amoco Fed. 11 CTB

GC Semi VOA (Continued)

Analysis Batch: 33100 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCS 880-33045/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33045
LCSD 880-33045/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33045

Analysis Batch: 33177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Total/NA	Solid	8015 NM	
890-2809-4	B-1 (3-4')	Total/NA	Solid	8015 NM	
890-2809-5	B-2 (0-1')	Total/NA	Solid	8015 NM	
890-2809-8	B-2 (3-4')	Total/NA	Solid	8015 NM	
890-2809-9	B-3 (0-1')	Total/NA	Solid	8015 NM	
890-2809-12	B-3 (3-4')	Total/NA	Solid	8015 NM	
890-2809-13	B-4 (0-1')	Total/NA	Solid	8015 NM	
890-2809-14	B-DUP-01	Total/NA	Solid	8015 NM	
890-2809-17	B-4 (3-4')	Total/NA	Solid	8015 NM	
890-2809-20	B-5 (2-3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32944

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
890-2809-1	B-1 (0-1')	Soluble	Solid	DI Leach	
890-2809-2	B-1 (1-2')	Soluble	Solid	DI Leach	
890-2809-3	B-1 (2-3')	Soluble	Solid	DI Leach	
890-2809-4	B-1 (3-4')	Soluble	Solid	DI Leach	
890-2809-5	B-2 (0-1')	Soluble	Solid	DI Leach	
890-2809-6	B-2 (1-2')	Soluble	Solid	DI Leach	
390-2809-7	B-2 (2-3')	Soluble	Solid	DI Leach	
390-2809-8	B-2 (3-4')	Soluble	Solid	DI Leach	
890-2809-9	B-3 (0-1')	Soluble	Solid	DI Leach	
890-2809-10	B-3 (1-2')	Soluble	Solid	DI Leach	
890-2809-11	B-3 (2-3')	Soluble	Solid	DI Leach	
390-2809-12	B-3 (3-4')	Soluble	Solid	DI Leach	
390-2809-13	B-4 (0-1')	Soluble	Solid	DI Leach	
390-2809-14	B-DUP-01	Soluble	Solid	DI Leach	
390-2809-15	B-4 (1-2')	Soluble	Solid	DI Leach	
390-2809-16	B-4 (2-3')	Soluble	Solid	DI Leach	
390-2809-17	B-4 (3-4')	Soluble	Solid	DI Leach	
390-2809-18	B-5 (0-1')	Soluble	Solid	DI Leach	
390-2809-19	B-5 (1-2')	Soluble	Solid	DI Leach	
390-2809-20	B-5 (2-3')	Soluble	Solid	DI Leach	
MB 880-32944/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-32944/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-32944/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2809-1 MS	B-1 (0-1')	Soluble	Solid	DI Leach	
390-2809-1 MSD	B-1 (0-1')	Soluble	Solid	DI Leach	
390-2809-11 MS	B-3 (2-3')	Soluble	Solid	DI Leach	
390-2809-11 MSD	B-3 (2-3')	Soluble	Solid	DI Leach	
nalysis Batch: 33093					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Soluble	Solid	300.0	32944

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Job ID: 890-2809-1 SDG: 60689116

Client: AECOM Project/Site: Amoco Fed. 11 CTB

HPLC/IC (Continued)

Analysis Batch: 33093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-2809-2	B-1 (1-2')	Soluble	Solid	300.0	32944
890-2809-3	B-1 (2-3')	Soluble	Solid	300.0	32944
890-2809-4	B-1 (3-4')	Soluble	Solid	300.0	32944
890-2809-5	B-2 (0-1')	Soluble	Solid	300.0	32944
890-2809-6	B-2 (1-2')	Soluble	Solid	300.0	32944
890-2809-7	B-2 (2-3')	Soluble	Solid	300.0	32944
890-2809-8	B-2 (3-4')	Soluble	Solid	300.0	32944
890-2809-9	B-3 (0-1')	Soluble	Solid	300.0	32944
890-2809-10	B-3 (1-2')	Soluble	Solid	300.0	32944
890-2809-11	B-3 (2-3')	Soluble	Solid	300.0	32944
890-2809-12	B-3 (3-4')	Soluble	Solid	300.0	32944
890-2809-13	B-4 (0-1')	Soluble	Solid	300.0	32944
890-2809-14	B-DUP-01	Soluble	Solid	300.0	32944
890-2809-15	B-4 (1-2')	Soluble	Solid	300.0	32944
890-2809-16	B-4 (2-3')	Soluble	Solid	300.0	32944
890-2809-17	B-4 (3-4')	Soluble	Solid	300.0	32944
890-2809-18	B-5 (0-1')	Soluble	Solid	300.0	32944
890-2809-19	B-5 (1-2')	Soluble	Solid	300.0	32944
890-2809-20	B-5 (2-3')	Soluble	Solid	300.0	32944
MB 880-32944/1-A	Method Blank	Soluble	Solid	300.0	32944
LCS 880-32944/2-A	Lab Control Sample	Soluble	Solid	300.0	32944
LCSD 880-32944/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32944
890-2809-1 MS	B-1 (0-1')	Soluble	Solid	300.0	32944
890-2809-1 MSD	B-1 (0-1')	Soluble	Solid	300.0	32944
890-2809-11 MS	B-3 (2-3')	Soluble	Solid	300.0	32944
890-2809-11 MSD	B-3 (2-3')	Soluble	Solid	300.0	32944

General Chemistry

Analysis Batch: 32942

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2809-1	B-1 (0-1')	Total/NA	Solid	D2216	
890-2809-2	B-1 (1-2')	Total/NA	Solid	D2216	
890-2809-3	B-1 (2-3')	Total/NA	Solid	D2216	
890-2809-4	B-1 (3-4')	Total/NA	Solid	D2216	
890-2809-5	B-2 (0-1')	Total/NA	Solid	D2216	
890-2809-6	B-2 (1-2')	Total/NA	Solid	D2216	
890-2809-7	B-2 (2-3')	Total/NA	Solid	D2216	
890-2809-8	B-2 (3-4')	Total/NA	Solid	D2216	
890-2809-9	B-3 (0-1')	Total/NA	Solid	D2216	
890-2809-10	B-3 (1-2')	Total/NA	Solid	D2216	
890-2809-11	B-3 (2-3')	Total/NA	Solid	D2216	
890-2809-12	B-3 (3-4')	Total/NA	Solid	D2216	
890-2809-13	B-4 (0-1')	Total/NA	Solid	D2216	
890-2809-14	B-DUP-01	Total/NA	Solid	D2216	
890-2809-15	B-4 (1-2')	Total/NA	Solid	D2216	
890-2809-16	B-4 (2-3')	Total/NA	Solid	D2216	
890-2809-17	B-4 (3-4')	Total/NA	Solid	D2216	
890-2809-18	B-5 (0-1')	Total/NA	Solid	D2216	
890-2809-19	B-5 (1-2')	Total/NA	Solid	D2216	
890-2809-20	B-5 (2-3')	Total/NA	Solid	D2216	

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Job ID: 890-2809-1 SDG: 60689116

Job ID: 890-2809-1 SDG: 60689116

Project/Site: Amoco Fed. 11 CTB

Client: AECOM

General Chemistry (Continued)

Analysis Batch: 32942 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-32942/1	Method Blank	Total/NA	Solid	D2216	
890-2809-1 DU	B-1 (0-1')	Total/NA	Solid	D2216	
890-2809-11 DU	B-3 (2-3')	Total/NA	Solid	D2216	

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Job ID: 890-2809-1 SDG: 60689116

Lab Sample ID: 890-2809-1 Matrix: Solid

Date Collected: 08/23/22 10:08 Date Received: 08/23/22 15:20

Project/Site: Amoco Fed. 11 CTB

Client Sample ID: B-1 (0-1')

Client: AECOM

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 17:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 00:22	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-1 (1-2')

Date Collected: 08/23/22 10:09

Date Received: 08/23/22 15:20

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared			. 5
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			4.97 g	50 mL	32944	08/25/22 12:19	KS	EET MID	
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 00:49	SMC	EET MID	
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID	

Client Sample ID: B-1 (2-3')

Date Collected: 08/23/22 10:10 Date Received: 08/23/22 15:20

		•								
Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 00:58	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-1 (3-4')

Date Collected: 08/23/22 10:11

Date Received: 08/23/22 15:20

Lab Sample ID: 890-2809-3

Lab Sample ID: 890-2809-2

Matrix: Solid

Matrix: Solid

alyzed	Analyst	Lab
2 12:19	KS	EET MID

Lab Sample ID: 890-2809-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 17:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 01:08	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Job ID: 890-2809-1 SDG: 60689116

Lab Sample ID: 890-2809-5 Matrix: Solid

Date Collected: 08/23/22 10:35 Date Received: 08/23/22 15:20

Project/Site: Amoco Fed. 11 CTB

Client Sample ID: B-2 (0-1')

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 18:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 01:17	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-2 (1-2')

Date Collected: 08/23/22 10:36

Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			. 5
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			4.99 g	50 mL	32944	08/25/22 12:19	KS	EET MID	
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 22:17	SMC	EET MID	
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID	

Client Sample ID: B-2 (2-3')

Date Collected: 08/23/22 10:37 Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 22:27	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-2 (3-4')

Date Received: 08/23/22 15:20

Matrix: Solid

Lab Sample ID: 890-2809-7

Lab Sample ID: 890-2809-6

Matrix: Solid

		000 0000 0
25/22 12:12	SMC	EET MID

Lab Sample ID: 890-2809-8

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 18:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 04:09	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 22:36	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Date Collected: 08/23/22 10:38

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Job ID: 890-2809-1 SDG: 60689116

Lab Sample ID: 890-2809-9 Matrix: Solid

Date Collected: 08/23/22 11:10 Date Received: 08/23/22 15:20

Project/Site: Amoco Fed. 11 CTB

Client Sample ID: B-3 (0-1')

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 18:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 04:51	SM	EET MID
Soluble	Leach	DI Leach			5,03 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 22:45	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-3 (1-2')

Date Collected: 08/23/22 11:11

Date	Received:	08/23/22	15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			- 5
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5,05 g	50 mL	32944	08/25/22 12:19	KS	EET MID	
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 22:55	SMC	EET MID	
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID	

Client Sample ID: B-3 (2-3')

Date Collected: 08/23/22 11:12 Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 23:04	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-3 (3-4')

Date Collected: 08/23/22 11:13

Date Received: 08/23/22 15:20

Lab Sample ID: 890-2809-11

Lab Sample ID: 890-2809-10

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2809-12

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 19:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33061	08/26/22 13:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33016	08/27/22 05:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 02:59	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Eurofins Carlsbad

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Job ID: 890-2809-1 SDG: 60689116

Lab Sample ID: 890-2809-13 Matrix: Solid

Lab Sample ID: 890-2809-14

Matrix: Solid

Matrix: Solid

Date Collected: 08/23/22 11:40 Date Received: 08/23/22 15:20

Project/Site: Amoco Fed. 11 CTB

Client Sample ID: B-4 (0-1')

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 19:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33045	08/26/22 10:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33100	08/28/22 05:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 03:08	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-DUP-01

Date Collected: 08/23/22 00:00 Date Received: 08/23/22 15:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 19:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33045	08/26/22 10:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33100	08/28/22 05:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 03:35	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-4 (1-2') Date Collected: 08/23/22 11:41 Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 03:45	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-4 (2-3') Date Collected: 08/23/22 11:42 Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 03:54	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Eurofins Carlsbad

Lab Sample ID: 890-2809-16 Matrix: Solid

Lab Sample ID: 890-2809-15

5

Job ID: 890-2809-1 SDG: 60689116

Lab Sample ID: 890-2809-17 Matrix: Solid

Date Collected: 08/23/22 11:43 Date Received: 08/23/22 15:20

Project/Site: Amoco Fed. 11 CTB

Client Sample ID: B-4 (3-4')

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33660	09/02/22 15:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 20:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33045	08/26/22 10:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33100	08/28/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33093	08/26/22 04:03	SMC	EET MID
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Client Sample ID: B-5 (0-1')

Date Collected: 08/23/22 12:07 Date Received: 08/23/22 15:20

											- 1
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			4.98 g	50 mL	32944	08/25/22 12:19	KS	EET MID	_
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 04:12	SMC	EET MID	
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID	

Client Sample ID: B-5 (1-2')

Date Collected: 08/23/22 12:08 Date Received: 08/23/22 15:20

Date Received	. 00/25/22 15.2	0							
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared	
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	
Soluble	Leach	DI Leach			5.04 g	50 mL	32944	08/25/22 12:19	
Soluble	Analysis	300.0		1	0 mL	0 mL	33093	08/26/22 04:21	

1

Client Sample ID: B-5 (2-3')

Analysis

D2216

Date Collected: 08/23/22 12:09

Total/NA

Date Received: 08/23/22 15:20

Lab Sample ID: 890-2809-20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33660	09/02/22 15:33	MR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	33741	09/05/22 20:30	AJ	EET MIC
Total/NA	Analysis	Total BTEX		1			33779	09/05/22 21:21	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			33177	08/29/22 10:06	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33045	08/26/22 10:36	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33100	08/28/22 04:51	SM	EET MIC
Soluble	Leach	DI Leach			5.04 g	50 mL	32944	08/25/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			33093	08/26/22 04:31	SMC	EET MIC
Total/NA	Analysis	D2216		1			32942	08/25/22 12:12	SMC	EET MID

Eurofins Carlsbad

32942

32942

Lab Sample ID: 890-2809-19

Analyst

KS

08/25/22 12:12

SMC

SMC

Lab Sample ID: 890-2809-18

Matrix: Solid

Lab

EET MID

EET MID

EET MID

Matrix: Solid

Lab Chronicle

Job ID: 890-2809-1
SDG: 60689116

Client Sample ID: TB-1 Date Collected: 08/23/22 00:00

Project/Site: Amoco Fed. 11 CTB

Client: AECOM

Date Received: 08/23/22 15:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	5 mL	5 mL	33496	09/02/22 09:00	MR	EET MID	- 2

Laboratory References:

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

Lab Sample ID: 890-2809-21

Matrix: Water

8 9

Accreditation/Certification Summarv

		Accreditation/C	ertification Summary		
Client: AECOM Project/Site: Amoco Fe	ed. 11 CTB			Job ID: 890-2809-1 SDG: 60689116	2
Laboratory: Eurofi	ins Midland				
Unless otherwise noted, all a	analytes for this laborate	ory were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this repo	ort, but the laboratory is not certi	fied by the governing authority. This list m	av include analytes for which	5
the agency does not of		on, but the laboratory is not bert			
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
D2216		Solid	Percent Solids		
Total BTEX		Solid	Total BTEX		8
					0
					9
					10
					13

Project/Site: Amoco Fed. 11 CTB

Job ID: 890-2809-1 SDG: 60689116

lethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
02216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

Client: AECOM

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

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Job ID: 890-2809-1 SDG: 60689116

Client: AECOM Project/Site: Amoco Fed. 11 CTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2809-1	B-1 (0-1')	Solid	08/23/22 10:08	08/23/22 15:20	0 - 1
890-2809-2	B-1 (1-2')	Solid	08/23/22 10:09	08/23/22 15:20	1 - 2
890-2809-3	B-1 (2-3')	Solid	08/23/22 10:10	08/23/22 15:20	2 - 3
890-2809-4	B-1 (3-4')	Solid	08/23/22 10:11	08/23/22 15:20	3 - 4
890-2809-5	B-2 (0-1')	Solid	08/23/22 10:35	08/23/22 15:20	0 - 1
890-2809-6	B-2 (1-2')	Solid	08/23/22 10:36	08/23/22 15:20	1 - 2
890-2809-7	B-2 (2-3')	Solid	08/23/22 10:37	08/23/22 15:20	2 - 3
890-2809-8	B-2 (3-4')	Solid	08/23/22 10:38	08/23/22 15:20	3 - 4
890-2809-9	B-3 (0-1')	Solid	08/23/22 11:10	08/23/22 15:20	0 - 1
890-2809-10	B-3 (1-2')	Solid	08/23/22 11:11	08/23/22 15:20	1 - 2
890-2809-11	B-3 (2-3')	Solid	08/23/22 11:12	08/23/22 15:20	2 - 3
890-2809-12	B-3 (3-4')	Solid	08/23/22 11:13	08/23/22 15:20	3 - 4
890-2809-13	B-4 (0-1')	Solid	08/23/22 11:40	08/23/22 15:20	0 - 1
890-2809-14	B-DUP-01	Solid	08/23/22 00:00	08/23/22 15:20	
890-2809-15	B-4 (1-2')	Solid	08/23/22 11:41	08/23/22 15:20	1 - 2
890-2809-16	B-4 (2-3')	Solid	08/23/22 11:42	08/23/22 15:20	2 - 3
890-2809-17	B-4 (3-4')	Solid	08/23/22 11:43	08/23/22 15:20	3 - 4
890-2809-18	B-5 (0-1')	Solid	08/23/22 12:07	08/23/22 15:20	0 - 1
890-2809-19	B-5 (1-2')	Solid	08/23/22 12:08	08/23/22 15:20	1 - 2
890-2809-20	B-5 (2-3')	Solid	08/23/22 12:09	08/23/22 15:20	2 - 3
890-2809-21	TB-1	Water	08/23/22 00:00	08/23/22 15:20	

Page L of Z	omments	Brownfields RRC Superfund	1	ST	ADaPT 🔲 Other:	Preservative Codes	None: NO DI Water: H ₂ O	lo		H250 4: H2 NaCH: Na	H ₃ PO 4: HP	NaHSO 4: NABIS	Na 25 203: NaSO 3	Zh Acetate+NaOH: Zh NaOH+Ascorhic Acid: SAPC		Sample Comments											11 Sn U V Zn /7470 /7471			e) Date/Time			
Work Order No:	Work Order Comments	Program: UST/PST PRP Bro	U.] Level III	Deliverables: EDD ADa									n or custody													n Mo Ni K Se Ag SiO ₂ Na Sr Ag TI U Hg: 1631 / 245.1	d conditions	the control viously negottated.	Received by: (Signature)			
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mildland, 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			<u>s</u>		a gerom. com	ANALYSIS REQUEST	ool Cont Coul Cool		8	12		W W	+ 3)		H I	87 97 29	XXX	X	X			X	X			3	a Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 such some service and the control of such some services are due to circumstances beyond the control of such some services are due to circumstances beyond the control of such some services are due to circumstances beyond the control of such some services are due to circumstances beyond the control of such some services are due to circumstances beyond the control of such some services are due to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. An initimum charge of \$85.00 will be enforced unless previously negotiated.	Time Relinquished by: (Signature)	2 02:S1 22/	4	Q
Houston, TX (281) 240 Midland, TX (432) 704-54 EL Paso, TX (915) 585-3 Hobbs, NM (575) 392-7	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	bradley. wynne	Tam Around	h Pres. C	5-day TAT	lay received by	Т	Ve No neter	A) MAN ECO- MV	- 0.0	2	. 11	Depth Grab/ # of Cont Comp	X - 5 -1-0	1-2' G 1 X	2-31 G 1 X	3-4' G 1 X	<u>۲ ،-0</u>	1-2' G 1 X	2-3' G I X			5	M Texas 11 AI Sb As Ba Be E LP6010 : 8RCRA Sb As Ba Be	r from client company to Eurofins Xenco	sibility for any losses or expenses incurr or each sample submitted to Eurofins Xe	Date/Time	1 22 / 22 121 CC- 20 9		
S Environment Testing Xenco	BRAD WYNNE	1 - DALLAS	NOEL RD STE. 400	AS. TX 75240	- 971-1829 Email	Amer E.J. A. C.T.R. Tumb	0	NM Due Date:	J. Lovely	the lab, in received by 4:30pm	Temp Blank: Yes No Wet Ice:	No Thermometer ID:		Yes No N/A Temperature Reading:	Corrected Temperature:	Matrix Date Time Sampled Sampled	Ser 8/29/ 10:08	80:01 UZUS	01:01 mals	11:01 22/22 8	Soil 8/13/11 10:35		9/23/22 10:37	8/13/22 10.38	8/23/22 11:10	• I II	200.8 / 6020: 8RCRA 13PPM Tex stal(s) to be analyzed TCLP / SPLP 601	relinquishment of samples constitutes a valid purchase order	only for the cost of samples and shall not assume any respon: if \$85.00 will be applied to each project and a charge of \$5 fo	Heceived by: (Signature)	2 1 los cues		
🛟 eurofins	Project Manager: BR		Address: 13355	City, State ZIP:	Phone: 214 -	Project Name	ber:	Project Location:	Sampler's Name: B.Cland	PO #:	SAMPLE RECEIPT	Samples Received Intact:	Cooler Custody Seals: Y	Seals:	Total Containers:	Sample Identification	2-1 10-11	にい	B-1 (2-3')	R-1 /2-4')	B-2 (0-1')	B-2(1-2')	B-2 (2-3')	4	5	(.2-1) 5-5	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and re	of service. Eurofins Xenco will be liable o of Eurofins Xenco. A minimum charge of	Relinguished by: (Signature)	and a	3	2

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	Page Z of S	aments	Brownfields RRC Superfund		PST/UST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	lo	HCL: HC HNO 3: HN		NaHSO 4: NABIS	Na 2 S 2 O 3: Na SO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments										TI Sn U V Zn /7470 /7471		Date/Time			
Work Order No:	www.xenco.com	Work Order Comments	Program: UST/PST PRP Brown	State of Project: NEW MEXICO	Reporting: Level II 🔲 Level III 🗍 PST	Deliverables: EDD ADaPT		2		T 1		2	2	Z	2											Mo Ni K Se Ag SiO ₂ Na Sr Tl U Hg: 1631 / 245.1	t conditions the control Noush megatated.	Received by: (Signature)			
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, Carisbad, NM (575) 988-3199				S		myne a acon . com	ANALYSIS REQUEST	Carl Cool Cool		8) (1) (1)	. A M 210	W 510 25	58 3) 7	x) / /	ы Н Э	15 17 17 17 17 17	X	XXXX							XXXX	As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K o As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 for services Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of services. Eurofins Xenco will be liable only for the cost of samples and a under the contractors in the contractors. It is active to service the cost of samples and and near the contractors of services beyond the control of services. Service A minimum n-have of cash concerce and a charge of S5 for each samples submitted to current by the client if such tost and the control of services beyond the control of services. These sterms will be enforced unless previously negotiated.	Date/Time Relinquished by: (Signature)	23/22 15:20 2	4	٩
Houston, TX () Midland, TX (432 EL Paso, TX (91 Hobbs, NM (57		Bill to: (if different)	Company Name:	Address:	City, State ZIP:	bradley y	Turn Around	Rush Code	5-day TAT	day received by ved by 4:30pm	Т		Par			Depth Grab/ # of Comp Cont	2-31 G 1	3-4' G 1	1 9 ,1-0	- 0 1	1-2' G 1	_	3.4. 6	1-21 6 1		Texas 11 AI Sb 6010 : 8RCRA Sh	r from client company to Eurofi sibility for any losses or expense or each sample submitted to Eu		8		
NS Environment Testing Xenco		BRAD WYNNE	AECOM - DALLAS	13355 NOEL 20, STC. 400	75240	214-971-1829 Email:	Amore Lod. 11 CTR TumA	116 DRout	A NM Due Date:	B. Cland J. S. Lovely TAI starts the day received by the lab of th	Tamm Blank. Vae Nin Workfrei	Thermometer	N/A Correction	N/A Temperatu	Corrected Temperature:	Matrix Date Time Sampled Sampled	2 11:12	Sail 8/23/22 11:13	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Soil gizina	1 H: 11 2/24 1:05 ()	24:11 24E2/8 1:05	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Soil 21/24 2 100	8/23/12 12:09	B	t and relinquishment of samples constitutes a valid purchase order lable only for the cost of samples and shall not assume any respon: une of stSt On will be annihed to each prohet and a charge of St So	pature)Received by (Signature)	In I a cut)	\$
🤹 eurofins		Project Manager:	Company Name:		City, State ZIP: DP	Phone: 21	Project Name:	mber:	Project Location:	er's Name:	CAMADIE DECEIDT	Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	B-3 (2-3'	B-3 (3-4')	B-4 (0-1')	DUP-OI	B-4 (1-2')	2) 4-	13-4 (3-4)	+	(2-	Total 200.7 / 6010 Circle Method(s) and N	Notice: Signature of this document a of service. Eurofins Xenco will be liat of Eurofins Xenco. A minimum chard	Relinquished by (Signature)	Ven C		5

9/5/2022

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4 5 6

Received by OCD: 4/30/2024 7:58:36 AM

Released to Imaging: 5/8/2024 1:03:13 PM

Login Sample Receipt Checklist

Client: AECOM

Login Number: 2809 List Number: 1 Creator: Clifton, Cloe

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

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

14

Job Number: 890-2809-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

14

Job Number: 890-2809-1 SDG Number: 60689116

List Source: Eurofins Midland

List Creation: 08/25/22 10:42 AM

Login Sample Receipt Checklist

Client: AECOM

Login Number: 2809 List Number: 2 Creator: Rodriguez, Leticia

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

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

Received by OCD: 4/30/2024 7:58:36 AM

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2810-1

Laboratory Sample Delivery Group: 60689116 Client Project/Site: amoco fed. 11 ctb

For:

AECOM 19219 Katy Freeway Suite 100 Houston, Texas 77094

Attn: Mr. Wallace Gilmore



Authorized for release by: 9/12/2022 4:22:56 PM

John Builes, Project Manager (561)558-4549 John.Builes@et.eurofinsus.com of 259

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

SDG: 60689116

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Client Sample Results	5
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Method Summary	14
Sample Summary	15
Chain of Custody	16
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	Definitions/Glossary		
Client: AECO		90-2810-1 60689116	2
Qualifiers			3
GC Semi VO	Α		ು
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		5
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.		8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		Q
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

Minimum Level (Dioxin) ML

MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2810-1

Receipt

The samples were received on 8/23/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.4°C

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33652/2-A) and (LCSD 880-33652/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

General Chemistry

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

4

5

Job ID: 890-2810-1 SDG: 60689116

	Client	. Sample Re	esults				
		•				Job ID: 890-	-2810-1
						SDG: 600	689116
')					Lab Samp	le ID: 890-2	2810-8
							x: Solid
						Percent Solid	ls: 93.5
			Unit	П	Bronarod	Assluzed	
					Prepareo		Dil Fac
<ᲔᲙ.4	U	53.4	mg/ĸg			09/06/22 12:59	1
ange Organ	ics (DRO)	(GC)					
		RL	Unit	D	Prepared	Analyzed	Dil Fac
		53.4	mg/Kg	‡	· · · · · · · · · · · · · · · · · · ·		1
<53.4	U	53.4	mg/Kg	¢	09/02/22 13:37	09/03/22 01:19	1
<53.4	U	53.4	mg/Kg	¢	09/02/22 13:37	09/03/22 01:19	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
104		70 - 130			09/02/22 13:37		1
102		70 - 130			09/02/22 13:37	09/03/22 01:19	1
		RL	Unit	D		Analyzed	Dil Fac
1160		26.8	mg/Kg	¢		09/07/22 18:04	5
່ ງ					Lab Samp	le ID: 890-2	2810-9
,							x: Solid
							••••
				_			
							Dil Fac
477		5.34	mg/Kg	¢		09/07/22 18:09	1
<i>'</i>)				L	ab Sample	a ID: 890-28	310-10
/							x: Solid
					1		
						Greetie	U. C
		RL	Unit	D	· · · · · · · · · · · · · · · · · · ·	Analyzed	Dil Fac
624		5.45	mg/Kg	☆		09/07/22 18:24	1
1				<u> </u>	ah Sample	× ID· 890-28	10-11
')				L	ab Sample	e ID: 890-28 Matrix	810-11 x: Solid
	age Organic Result <53.4 ange Organi Result <53.4 <53.4 <53.4 <53.4 <53.4 <704 102 hromatogra Result 1160 ') hromatogra Result 477 ')	') age Organics (DRO) (G <u>Result Qualifier</u> <53.4 U ange Organics (DRO) (G <u>Result Qualifier</u> <53.4 U <53.4 U <53.4 U <53.4 U <53.4 U	by the second state of th	Interview of the system of th	'') Inge Organics (DRO) (GC) Result Qualifier RL <53.4	') Lab Sample ige Organics (DRO) (GC) Result Qualifier RL Unit D Prepared ange Organics (DRO) (GC) Result Qualifier RL Unit D Prepared <53.4	Job ID: 890-SDG: 600 ') Lab Sample ID: 890-2 Matrix Percent Solid '' Result Qualifier RL <53.4

Percent Solids: 95.8

Date Received: 08/23/22 15:20 Sample Depth: 0 - 1

Method: 8015 NM - Diesel F	Range Organic	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<52.2	U	52.2	mg/Kg			09/06/22 12:59	1
	Range Organ	ics (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<52.2	U	52.2	mg/Kg	¢	09/02/22 13:37	09/03/22 01:41	1

(GRO)-C6-C10 Diesel Range Organics (Over	<52.2 U	52.2	mg/Kg	© 09/02/22 13:37 09/03/22 01:41	1
C10-C28) Oll Range Organics (Over C28-C36)	<52.2 U	52.2	mg/Kg	☆ 09/02/22 13:37 09/03/22 01:41	1

5

Client Sample Results

Job ID: 890-2810-1 SDG: 60689116

Client Sample ID: B-9 (0-1') Date Collected: 08/23/22 14:00 Date Received: 08/23/22 15:20 Sample Depth: 0 - 1

Project/Site: amoco fed. 11 ctb

Client: AECOM

Lab Sample ID: 890-2810-11

Matrix: Solid Percent Solids: 95.8

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101	70 - 130	09/02/22 13:37	09/03/22 01:41	1
o-Terphenyl	102	70 - 130	09/02/22 13:37	09/03/22 01:41	1

Client: AECOM Project/Site: amoco fed. 11 ctb

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

-			Perce	nt Surrogate Recov	very (Accepta	nce Limits)
		1CO1	OTPH1	-		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-2810-8	B-8 (0-1')	104	102			
890-2810-11	B-9 (0-1')	101	102			
LCS 880-33652/2-A	Lab Control Sample	141 S1+	144 S1+			
LCSD 880-33652/3-A	Lab Control Sample Dup	144 S1+	146 S1+			
MB 880-33652/1-A	Method Blank	110	115			
Surrogate Legend						
1CO = 1-Chlorooctane						

OTPH = o-Terphenyl

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5 6

Job ID: 890-2810-1 SDG: 60689116

Prep Type: Total/NA

QC Sample Results

Client: AECOM Project/Site: amoco fed. 11 ctb

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

Lab Sample ID: MB 880-33 Matrix: Solid										Prep Typ	e: To	
Analysis Batch: 33584										Prep B	atch:	3365
		MB										
Analyte			Qualifier	RL		Unit			repared	Analyz		Dil Fa
Gasoline Range Organics	</td <td>50.0</td> <td>U</td> <td>50.0</td> <td>)</td> <td>mg/K</td> <td>g</td> <td>09/0</td> <td>2/22 13:37</td> <td>09/02/22 1</td> <td>9:12</td> <td></td>	50.0	U	50.0)	mg/K	g	09/0	2/22 13:37	09/02/22 1	9:12	
(GRO)-C6-C10												
Diesel Range Organics (Over	<{	50.0	U	50.0)	mg/K	g	09/0)2/22 13:37	09/02/22 1	9:12	
C10-C28) Oll Range Organics (Over C28-C3	6) <	50.0	п	50.0		mg/K	a	00/0	12/22 12.27	09/02/22 1	0.12	
on Range organies (over 020-00		.0.0	0	50.0	•	iiig/it	9	03/0	12/22 10.01	00/02/22	5.12	
		MВ	MB									
Surrogate	%Recov	/ery	Qualifier	Limits				F	repared	Analyz	ed	Dil Fa
1-Chlorooctane		110		70 - 130	-			09/0	02/22 13:37	09/02/22 1	9:12	
p-Terphenyl		115		70 - 130				09/0	02/22 13:37	09/02/22 1	9:12	
ah Campia ID: LCC 990 (00050/0 A						Clie	nt Co		Lab Can		
∟ab Sample ID: LCS 880-3 Matrix: Solid	5552/2-A						Cile	iii Ja	inple iD.	Lab Con		
										Prep Typ		
Analysis Batch: 33584				Cuilco	1.00	LCS				Prep Ba %Rec	atch:	33054
A maluta				Spike	-	Qualifier	11		% Dee			
Analyte				Added	897.3	Quaimer	Unit	D	%Rec 90	Limits		
Gasoline Range Organics GRO)-C6-C10				1000	897.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over				1000	906.9		mg/Kg		91	70 - 130		
C10-C28)				1000	00010				01			
	LCS	LCS	;									
Surrogate	%Recovery	Qua	lifier	Limits								
1-Chlorooctane	141	S1+		70 - 130								
o-Terphenyl	144	S1+		70 - 130								
Lab Sample ID: LCSD 880	-33652/3-A					C	lient Sa	mple	ID: Lab	Control S	ampl	e Dur
Matrix: Solid										Prep Typ		
Analysis Batch: 33584										Prep B		
·····,				Spike	LCSD	LCSD				%Rec		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics				1000	916.7		mg/Kg		92	70 - 130	2	20
(GRO)-C6-C10												
Diesel Range Organics (Over C10-C28)				1000	923.6		mg/Kg		92	70 - 130	2	20
	LCSD	LCS	D									
Surrogate	%Recovery			Limits								
1-Chlorooctane	144	_		70 - 130								
o-Terphenyl	146	S1+		70 - 130								
lethod: 300.0 - Anions	lon Chro	m	atoaran	hy								
$A_{\text{CLUCUL}} = A_{\text{CLUCUL}}$		/1110	atograp	, i i y								
Lab Sample ID: MB 880-33	3690/1-A							Cli	ent Sam	ole ID: Me		
Lab Sample ID: MB 880-33	3690/1-A							Cli	ent Samı	ole ID: Me Prep Ty		
	3690/1-A							Cli	ent Samı			

Job ID: 890-2810-1

SDG: 60689116

QC Sample Results

Client: AECOM Project/Site: amoco fed. 11 ctb

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Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-33690/2-A Matrix: Solid Analysis Batch: 33886				Clier	nt Sa	mple ID	: Lab Cor Prep Ty		
Analysis Batch. 00000	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	261.9		mg/Kg		105	90 - 110		
Lab Sample ID: LCSD 880-33690/3-A Matrix: Solid Analysis Batch: 33886			C	Client Sa	mple	ID: Lat	Control Prep Ty		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	261.6		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: AECOM Project/Site: amoco fed. 11 ctb

GC Semi VOA

Analysis Batch: 33584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2810-8	B-8 (0-1')	Total/NA	Solid	8015B NM	33652
890-2810-11	B-9 (0-1')	Total/NA	Solid	8015B NM	33652
MB 880-33652/1-A	Method Blank	Total/NA	Solid	8015B NM	33652
LCS 880-33652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33652
LCSD 880-33652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33652
Prep Batch: 33652					
Dran Batah: 22652					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method 8015NM Prep	Prep Batch
	B-8 (0-1')	Prep Type Total/NA Total/NA	Solid	8015NM Prep	Prep Batch
Lab Sample ID	•	Total/NA			Prep Batch
Lab Sample ID 890-2810-8 890-2810-11	B-8 (0-1') B-9 (0-1')	Total/NA Total/NA	Solid Solid	8015NM Prep 8015NM Prep	Prep Batch

Client Sample ID Lab Sample ID Prep Type Matrix Method **Prep Batch** 890-2810-8 B-8 (0-1') Total/NA Solid 8015 NM 890-2810-11 B-9 (0-1') Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 33690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2810-8	B-8 (0-1')	Soluble	Solid	DI Leach	
890-2810-9	B-8 (1-2')	Soluble	Solid	DI Leach	
890-2810-10	B-8 (2-3')	Soluble	Solid	DI Leach	
MB 880-33690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 33886

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2810-8	B-8 (0-1')	Soluble	Solid	300.0	33690
890-2810-9	B-8 (1-2')	Soluble	Solid	300.0	33690
890-2810-10	B-8 (2-3')	Soluble	Solid	300.0	33690
MB 880-33690/1-A	Method Blank	Soluble	Solid	300.0	33690
LCS 880-33690/2-A	Lab Control Sample	Soluble	Solid	300.0	33690
LCSD 880-33690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33690

General Chemistry

Analysis Batch: 33657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2810-8	B-8 (0-1')	Total/NA	Solid	D2216	
890-2810-9	B-8 (1-2')	Total/NA	Solid	D2216	
890-2810-10	B-8 (2-3')	Total/NA	Solid	D2216	
890-2810-11	B-9 (0-1')	Total/NA	Solid	D2216	
MB 880-33657/1	Method Blank	Total/NA	Solid	D2216	
890-2810-8 DU	B-8 (0-1')	Total/NA	Solid	D2216	

8

Lab Chronicle

Job ID: 890-2810-1 SDG: 60689116

Lab Sample ID: 890-2810-8 Matrix: Solid

Date Collected: 08/23/22 13:35

Client Sample ID: B-8 (0-1')

Project/Site: amoco fed. 11 ctb

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33843	09/06/22 12:59	SM	EET MID
Total/NA	Analysis	D2216		1			33657	09/02/22 15:14	SMC	EET MID
Client Samp	ole ID: B-8	(0-1')						Lab Sample	e ID: 89	0-2810-8
Date Collected	d: 08/23/22 1	3:35						-	Ма	atrix: Solid
Date Received	l: 08/23/22 1	5:20						P	ercent S	olids: 93.5
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/03/22 01:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33690	09/03/22 13:21	KS	EET MID
Soluble	Analysis	300.0		5	Ū		33886	09/07/22 18:04	СН	EET MID
Client Samp	ole ID: B-8	(1-2')						Lab Sample	e ID: 89	0-2810-9
Date Collected								· · · ·		atrix: Solid
Date Received	J: 08/23/22 1	5:20								
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			33657	09/02/22 15:14		EET MID
- Client Comr		(4. 21)						Lob Compl	00 ID. 00	0 2010 0
Client Samp								Lab Sample		
Date Collected	d: 08/23/22 1	3:36							Ма	atrix: Solid
Date Collected	d: 08/23/22 1	3:36							Ма	
ate Collected	d: 08/23/22 1	3:36		Dil	Initial	Final	Batch		Ма	atrix: Solid
Date Collected Date Received	d: 08/23/22 1 d: 08/23/22 1	3:36 5:20	Run	Dil Factor	Amount	Final Amount		P Prepared or Analyzed	Ma ercent S Analyst	atrix: Solid olids: 94.3 Lab
Date Collected	d: 08/23/22 1 d: 08/23/22 1 Batch	3:36 5:20 Batch	Run				Batch	P Prepared	Ma ercent S	atrix: Solid olids: 94.3
Date Collected Date Received	d: 08/23/22 1 d: 08/23/22 1 Batch Type	3:36 5:20 Batch Method	Run		Amount	Amount	Batch Number	P Prepared or Analyzed	Ma ercent S Analyst KS	atrix: Solid olids: 94.3 Lab
Date Collected Date Received Prep Type Soluble Soluble	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis	3:36 5:20 Batch Method DI Leach 300.0	Run	Factor	Amount	Amount	Batch Number 33690 33886	Prepared or Analyzed 09/03/22 13:21	Ma ercent S Analyst KS CH	Lab EET MID EET MID
Date Collected Date Received Prep Type Soluble Soluble Client Samp	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis DIE ID: B-8	3:36 5:20 Batch Method DI Leach 300.0 (2-3')	Run	Factor	Amount	Amount	Batch Number 33690 33886	Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09	Ma ercent S Analyst KS CH ID: 890	Lab EET MID EET MID
Prep Type Soluble Soluble Client Samp Date Collected	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37	Run	Factor	Amount	Amount	Batch Number 33690 33886	Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09	Ma ercent S Analyst KS CH ID: 890	Lab EET MID EET MID EET MID D-2810-10
Prep Type Soluble Soluble Client Samp	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37	Run	Factor	Amount	Amount	Batch Number 33690 33886	Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09	Ma ercent S Analyst KS CH ID: 890	Lab EET MID EET MID EET MID D-2810-10
Date Collected Date Received Prep Type Soluble	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20	_ Run	1	Amount 4.97 g	Amount 50 mL	Batch Number 33690 33886	Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample	Ma ercent S Analyst KS CH ID: 890	Lab EET MID EET MID EET MID D-2810-10
Prep Type Soluble Soluble Client Samp Date Collected Date Received	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 Batch	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch		Factor 1 Dil	Amount 4.97 g Initial	Amount 50 mL	Batch Number 33690 33886 L Batch	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared	Ma ercent S Analyst KS CH ID: 890 Ma Analyst	Lab EET MID EET MID EET MID 0-2810-10 atrix: Solid
Prep Type Soluble Soluble Client Samp Date Collected Date Received Date Received Total/NA	d: 08/23/22 1 3: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 d: 08/23/22 1 Batch Type Analysis	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216		Factor 1 Dil	Amount 4.97 g Initial	Amount 50 mL	Batch Number 33690 33886 L Batch Number 33657	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed 09/02/22 15:14	Ma ercent S Analyst KS CH ID: 890 Ma Analyst SMC	Lab EET MID EET MID D-2810-10 atrix: Solid
Prep Type Soluble Soluble Client Samp Date Collecter Date Received Prep Type Total/NA	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 Batch Type Analysis Die ID: B-8	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216 (2-3')		Factor 1 Dil	Amount 4.97 g Initial	Amount 50 mL	Batch Number 33690 33886 L Batch Number 33657	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed	Ma ercent S Analyst KS CH ID: 890 Ma Analyst SMC ID: 890	Lab EET MID EET MID 0-2810-10 atrix: Solid EET MID 0-2810-10 atrix: Solid 0-2810-10
Prep Type Soluble Soluble Client Samp Date Collected Date Received Total/NA Client Samp Date Collected	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 Batch Type Analysis Die ID: B-8 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216 (2-3') 3:37		Factor 1 Dil	Amount 4.97 g Initial	Amount 50 mL	Batch Number 33690 33886 L Batch Number 33657	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed 09/02/22 15:14 ab Sample	Ma ercent S Analyst KS CH ID: 890 Ma ID: 890 Ma	Lab EET MID EET MID D-2810-10 atrix: Solid
Prep Type Soluble Soluble Client Samp Date Collected Date Received Total/NA Client Samp Date Collected	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis Die ID: B-8 d: 08/23/22 1 Batch Type Analysis Die ID: B-8 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216 (2-3') 3:37		Factor 1 Dil	Amount 4.97 g Initial	Amount 50 mL	Batch Number 33690 33886 L Batch Number 33657 L	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed 09/02/22 15:14 ab Sample	Ma ercent S Analyst KS CH ID: 890 Ma ID: 890 Ma	Lab EET MID EET MID P-2810-10 atrix: Solid EET MID 0-2810-10 atrix: Solid
Date Collected Date Received Soluble Soluble Client Samp Date Collected Date Received Total/NA Client Samp Date Collected Date Collected Date Collected Date Collected	d: 08/23/22 1 Batch Type Leach Analysis DIE ID: B-8 d: 08/23/22 1 Batch Type Analysis DIE ID: B-8 d: 08/23/22 1 Batch Comparison DIE ID: B-8 d: 08/23/22 1 DIE ID: B-8 d: 08/23/22 1 DIE ID: B-8 DIE ID: B-8 D	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216 (2-3') 3:37 5:20 Batch Batch	<u>Run</u>	Factor 1 Dil Factor 1 Dil	Amount 4.97 g Initial Amount Initial	Amount 50 mL Final Amount Final	Batch Number 33690 33886 L Batch Number 33657 L Batch	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed 09/02/22 15:14 ab Sample Prepared	Ma ercent S Analyst KS CH ID: 890 Ma SMC ID: 890 Ma ercent S	Lab EET MID EET MID D-2810-10 atrix: Solid EET MID 0-2810-10 atrix: Solid D-2810-10 atrix: Solid D-2810-10 atrix: Solid
Prep Type Soluble Soluble Client Samp Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	d: 08/23/22 1 d: 08/23/22 1 Batch Type Leach Analysis DIE ID: B-8 d: 08/23/22 1 Batch Type Analysis DIE ID: B-8 d: 08/23/22 1 d: 08/23/22 1	3:36 5:20 Batch Method DI Leach 300.0 (2-3') 3:37 5:20 Batch Method D2216 (2-3') 3:37 5:20		Factor 1 Dill Factor 1	Amount 4.97 g Initial Amount	Amount 50 mL Final Amount	Batch Number 33690 33886 L Batch Number 33657 L	P Prepared or Analyzed 09/03/22 13:21 09/07/22 18:09 ab Sample Prepared or Analyzed 09/02/22 15:14 ab Sample P	Ma ercent S Analyst KS CH ID: 890 Ma Ercent S Analyst	Lab EET MID EET MID P-2810-10 atrix: Solid EET MID 0-2810-10 atrix: Solid

Lab Chronicle

Job ID: 890-2810-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

9

Percent Solids: 95.8

Lab Sample ID: 890-2810-11

Client Sample ID: B-9 (0-1') Date Collected: 08/23/22 14:00 Date Received: 08/23/22 15:20

Project/Site: amoco fed. 11 ctb

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33843	09/06/22 12:59	SM	EET MID
Total/NA	Analysis	D2216		1			33657	09/02/22 15:14	SMC	EET MID
- Client Sam	ple ID: B-9	(0-1')					L	ab Sample	ID: 890	-28

Client Sample ID: B-9 (0-1') Date Collected: 08/23/22 14:00 Date Received: 08/23/22 15:20

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/03/22 01:41	SM	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Page 103 of 259

Client: AECOM Project/Site: amoco fed. 11 ctb									
Vidland s for this laboratory	were covered under	each accreditation/certification below.							
Prog	ram	Identification Number	Expiration Date						
NELA	۱P	T104704400-22-24	06-30-23						
ification.	Matrix	Analyte	This list may include analytes for which						
	Solid	Total TPH							
	Solid	Percent Solids							
	s for this laboratory Prog NEL4 uded in this report, fication.	a for this laboratory were covered under Program NELAP uded in this report, but the laboratory is refication. up Method Matrix Solid	Program Identification Number Program Identification Number NELAP T104704400-22-24 uded in this report, but the laboratory is not certified by the governing authority. fication. up Method Matrix Analyte Total TPH Total TPH						

Eurofins Carlsbad

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Method Summary

Client: AECOM Project/Site: amoco fed. 11 ctb Job ID: 890-2810-1 SDG: 60689116

Method	Method Description	Protocol	Laboratory
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	MCAWW	EET MID
D2216	Percent Moisture	ASTM	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: AECOM Project/Site: amoco fed. 11 ctb Page 105 of 259

Job ID: 890-2810-1 SDG: 60689116

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-2810-8	B-8 (0-1')	Solid	08/23/22 13:35	08/23/22 15:20	
390-2810-9	B-8 (1-2')	Solid	08/23/22 13:36	08/23/22 15:20	1 - 2
890-2810-10	B-8 (2-3')	Solid	08/23/22 13:37	08/23/22 15:20	2 - 3
890-2810-11	B-9 (0-1')	Solid	08/23/22 14:00	08/23/22 15:20	0 - 1

			3/23/22 15:002	8	themat		Mr. (
) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	e)	Received by Signature	Bignature)	Relinquished by big
	d conditions the control viously negotiated.	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.	urofins Xenco, its affiliates and sul penses incurred by the client if suc to Eurofins Xenco, but not analyze	ler from client company to f onsibility for any losses or ex for each sample submitted	s constitutes a valid purchase or es and shall not assume any respo o each project and a charge of \$5	and relinquishment of sample ble only for the cost of sample ge of \$85.00 will be applied to	tice: Signature of this document service. Eurofins Xenco will be li Eurofins Xenco. A minimum chai
11 SN U V ZN 7470 /7471	41 K Se Ag SiO ₂ Na Sr Hg: 1631/245.1 /	Ca Cr Co Cu Fe Pb Mg M r Co Cu Pb Mn Mo Ni Se /	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pt Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	A 13PPM Texas 11 AI Sb TCLP/SPLP 6010 : 8RCRA St	8RCRA 13PPM yzed TCLP/SPLF	200.8 / 6020: Metal(s) to be anal	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
			XXX	-31 G	8/23/22 13:37) Soil)
HOLD		X	X	1-21	-	2'i Soit	8
HOLD		X	X	_	23 /22) Sal	2
HOLD		X		3-41 G	8/23 hr 12:53	Soil	R-7 13-4
HOLD					2454	Soil	1
HOLD				-	re la) Soil	1-1-0
16		X		2.3' G	8/13/12 12:30	-	3-6(2-3
HOLD			X	1-21 G	8/23/22 12:29	') Soil	B-6 (1-2
HOLD			X	0-1' G	3/13/22 17:28) Soil	B-6 (0-1
Sample Comments		Per	Cont Chr BT TP	Depth Comp Cc	Date Time Sampled Sampled	Matrix	Sample Identification
NaUH+Ascorbic Acid: SAPC		-	() (E) (H)	2	Corrected Temperature:		otal Containers:
Zn Acetate+NaOH: Zn	10 Chain of Custody	890-28	<u>د.</u> ط لا	11	Temperature Reading:	Yes NO N/A	Sample Custody Seals:
Na 2S 2O3: NaSO 3			e	ø	Correction Factor:	Yes No ATA	Cooler Custody Seals:
NaHSO 4: NABIS		M		ECO TUN	Thermometer ID:		Samples Received Intact:
H ₃ PO ₄ : HP		0.5		Yes No	Yes No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na			A 3 1 B		the lab, if rec		
HCL: HC HNO 3: HN		و	<u>ر</u> هر)	Due Date:		1-	Project Location:
		8	de (00) (00) (00) (00)	Rush Code		-	Project Number:
ervative		ANALYSIS REQUEST	-		CIB	Amoro Fed. 11	Project Name:
Other:	Deliverables: EDD AUaP {	Com	bradley. Wynne @ aecom .	bradley.	1829 Email:	11	Phone: 2
ST	evel II Level III L			City, State ZIP:	75240	DALLAS, TX	City, State ZIP:
	Z MEX	S		Address:	P.D., STE, 400	1301	
Brownfields RRC Superfund	Program: UST/PST PRP Brow	P		Company Name:	ALLAS	AECOM - D.	Company Name:
	/ork Ord			Bill to: (if different)	WYNNE	BRAD WY	Project Manager:
Page of	www.xenco.com	M (5/5) 988-3199	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199	Hobbs, NA			
		(806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T		Xenco	
	Work Order No: _	TX (210) 509-3334	Mouston, 1X (281) 240-4200, Dailas, 1X (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX	Environment Testing		

Page 106 of 259

4 5 6

	Relinguished by: (Signature	Notice: Signature of this document and n of service. Eurofins Xenco will be liable o of Eurofins Xenco. A minimum charge of	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		2	B-9 (0-11)	Identific			Cooler Custody Seals: Y	SAMPLE RECEIPT			_	ber:	Project Name: Amoco		City, State ZiP: DAI			Project Manager: BR		
Annar CC	Ire) Received by: (Signature)	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 furofins 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	200.8 / 6020: 8RCRA 131 tal(s) to be analyzed TCLP /	0	2/2/2	20.1 8/23/22 14:00	Date Sampled	Corrected Temperature:		Yes No N/A Correction Gaetor	Blank:		B.C. Lend, J. Lovely TAT starts t	Vina NM Due Date:	60689116 Routine	Amoco Fed. 11 CTB TU	214-971-1829 Email:	DALLAS TX 75240	3355 NOEL RD. STE. 400	AECOM - DALLAS	BRAD WYNNE	Xenco	Environment Testing
1/2 0	ure)	order from client company to Eurofi sponsibility for any losses or expens \$5 for each sample submitted to Eu	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	3 3-4' & 1	2.3'	1-21 6	Depth			Para	Yes No		TAT starts the day received by the lab. if received by 4:30pm		Rush Code	Turn Around	11 bradley. wy me	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	EL Paso, TX (91) Hobbs, NM (57	Midland, TX (432
8/23/22 15·10 2	Date/Time	is Xenco, its affiliates and subc s incurred by the client if such ofins Xenco, but not analyzed	As Ba Be B Cd Ca b As Ba Be Cd Cr C		X	XX X X X	B	TE	ex t	(*	(E1 802 014 M	51	B) M)		a 1 601 Co-1 Co.		ne @ aecom .					EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
	Relinquished by: (Signature)	ontractors. It assigns standard ten losses are due to circumstances b . These terms will be enforced unle	Cr Co Cu Fe Pb Mi Co Cu Pb Mn Mo Ni					er	Ce	<u>nt</u>	M	2.20	tur	<u>e</u>		ANALYSIS REQUEST	m. com					806) 794-1296 (575) 988-3199	X (210) 509-3334
	ure) Received by: (Signature)	terms and conditions s beyond the control miess previously negotiated.	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Z Vi Se Ag TI U Hg: 1631/245.1/7470/7 4 71	H	I			NaOH	Zn Ac	Na ₂ S	H,PO .: HP		HCL: HC	Cool: Cool	None: NO		Deliverables: EDD ADaPT	evel III		Program: UST/PST PRP Brownfields	Work Order Comments		Work Order No:
	Date/Time		1 U V Zn) /7471	Hord	HOLD	HOLD	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na 25 20 3: NaSO 3	H ₃ PO ₄ : HP NaHSO ₄ : NABIS			Cool MeOH: Me	NO DI Water: H ₂ O	Preservative Codes	Other:	PST/UST TRRP Level IV		Is RRC Superfund	nts	Page 2 of 2	

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Job Number: 890-2810-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: AECOM

<6mm (1/4").

Login Number: 2810 List Number: 1 Creator: Clifton, Cloe

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

Eurofins Carlsbad Released to Imaging: 5/8/2024 1:03:13 PM
Login Sample Receipt Checklist

Client: AECOM

<6mm (1/4").

Login Number: 2810 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 890-2810-1

List Creation: 08/29/22 09:19 AM

Received by OCD: 4/30/2024 7:58:36 AM

LINKS

Review your project results through

EOL

Have a Question?

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Released to Imaging: 5/8/2024 1:03:13 PM

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2810-2

Laboratory Sample Delivery Group: 60689116 Client Project/Site: amoco fed. 11 ctb

For:

AECOM 19219 Katy Freeway Suite 100 Houston, Texas 77094

Attn: Mr. Wallace Gilmore



Authorized for release by: 9/16/2022 3:57:53 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 890-2810-2

SDG: 60689116

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Sample Summary	11
Chain of Custody	12
Receipt Checklists	14
	14

2

Definitions/Glossary

1 uge 112 0j 237

	Deminions/Glossaly		
Client: AECON		Job ID: 890-2810-2	
Project/Site: a	amoco fed. 11 ctb	SDG: 60689116	
Qualifiers			3
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			5
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		0
DER	Duplicate Error Ratio (normalized absolute difference)	٣	
Dil Fac	Dilution Factor		9
DL	Detection Limit (DoD/DOE)	7	
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)	r.	
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)		
TEO	Toxicity Equivalent Quotient (Dioxin)		

TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

5

Job ID: 890-2810-2 SDG: 60689116

Job ID: 890-2810-2

Client: AECOM

Laboratory: Eurofins Carlsbad

Project/Site: amoco fed. 11 ctb

Narrative

Job Narrative 890-2810-2

Receipt

The samples were received on 8/23/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.4°C

HPLC/IC

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

General Chemistry

Method MOISTURE_2540G: The following sample(s) was analyzed outside of analytical holding time due to sample being activated after holding time expired.B-7 (3-4') (890-2810-7).

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

	Client	Sample Res	sults					
Client: AECOM Project/Site: amoco fed. 11 ctb						Job ID: 890 SDG: 60	-2810-2 0689116	2
Client Sample ID: B-7 (3-4') Date Collected: 08/23/22 12:53					Lab Sa	mple ID: 890- Matri	2810-7 x: Solid	
Date Received: 08/23/22 15:20 Sample Depth: 3 - 4						Percent Soli	ds: 90.6	4
Method: 300.0 - Anions, Ion Chr Analyte	 Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride		27.4	mg/Kg	_	riepaieu	09/15/22 20:06	5	
								8
								9
								13

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QC Sample Results

Job ID: 890-2810-2 SDG: 60689116

Client: AECOM Project/Site: amoco fed. 11 ctb

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34308/1-A										Client S	ample ID:	Method	Blank
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 34575													
	МВ	МВ											
Analyte	Result	Qualifier		RL		U	nit	D	Р	repared	Analy	zed	Dil Fac
Chloride	<5.00	U		5.00		m	g/Kg	·			09/15/22	17:36	1
- Lab Sample ID: LCS 880-34308/2-A								C	lient	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 34575													
-			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride			250		243.4		mg/Kg		_	97	90 - 110		
_ Lab Sample ID: LCSD 880-34308/3-A							c	lient	Sam	ple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid										· · · ·	Prep	Type: S	Soluble
Analysis Batch: 34575													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit
Chloride			250		252.3		mg/Kg		_	101	90 - 110	4	20

Received by OCD: 4/30/2024 7:58:36 AM

QC Association Summary

Client: AECOM Project/Site: amoco fed. 11 ctb

Page 116 of 259

Job ID: 890-2810-2 SDG: 60689116

HPLC/IC

Leach Batch: 34308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2810-7	B-7 (3-4')	Soluble	Solid	DI Leach	
MB 880-34308/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34308/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34308/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 34575	i				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 890-2810-7	Client Sample ID B-7 (3-4')	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 34308
890-2810-7	B-7 (3-4')	Soluble	Solid	300.0	34308
890-2810-7 MB 880-34308/1-A	B-7 (3-4') Method Blank	Soluble	Solid Solid	300.0 300.0	34308 34308

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2810-7	B-7 (3-4')	Total/NA	Solid	D2216	1
MB 880-34471/1	Method Blank	Total/NA	Solid	D2216	

Eurofins Carlsbad

Released to Imaging: 5/8/2024 1:03:13 PM

Lab Chronicle

Job ID: 890-2810-2

Client Sample ID: B-7 (3-4')

Project/Site: amoco fed. 11 ctb

Client: AECOM

SDG: 60689116 Lab Sample ID: 890-2810-7

Matrix: Solid

5

Date Collected: 08/23/22 12:53

Date Received: (08/23/22	15:20
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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			34471	09/14/22 09:09	KS	EET MID
lient Samp	le ID: B-7 (3-	-4')						Lab Sam	ple ID: 8	390-2810-7
ate Collected	1: 08/23/22 12:5	3							- 	Matrix: Solid
Date Received	: 08/23/22 15:20	0							Percent	Solids: 90.0
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep Type Soluble	Type Leach	Method DI Leach	Run	Factor	Amount 5.03 g	Amount 50 mL	- Number 34308	or Analyzed 09/12/22 15:54	Analyst KS	EET MID

Laboratory References:

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

Job ID: 890-2810-2 SDG: 60689116

Accreditation/Certification Summary

Client: AECOM	
Project/Site: amoco fed. 11 ctl	С

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-22-24	06-30-23
the agency does not of	fer certification.	2	ed by the governing authority. This list ma	ay include analytes for
0,	1 /	ut the laboratory is not certifi Matrix	ed by the governing authority. This list ma Analyte	ay include analytes for

Method Summary

Client: AECOM Project/Site: amoco fed. 11 ctb

Job ID: 890-2810-2 SDG: 60689116

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET MID
D2216	Percent Moisture	ASTM	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Job ID: 890-2810-2 SDG: 60689116

Client: AECOM Project/Site: amoco fed. 11 ctb

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-2810-7	B-7 (3-4')	Solid	08/23/22 12:53	08/23/22 15:20	3 - 4	4
						5
						8
						9
						11

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LAS Company Name: Program: UST/PST PPG Brownfield BRC 1 Imal Incalling: Imal Incalling: Imal Imal <th>8/13/22 15:02</th> <th>1440</th>	8/13/22 15:02	1440
ustr/pst[PRP[Brownfields[RRC[level III Pst/Ust[TRP[es: EDD[ADaPT Other: es: EDD[ADaPT Preservative CG Preservative CG Preservative CG Preservative CG Image: None: None: No DI Image: No DI Cool: Cool Me HCL:HC HA Hol Hol Hol Hol Na >5 x0 x: H2 Na Na Na Na Hol	Date/Time Relinquished by: (Signature) Received by: (S	Relinguished by: (Signature)
ustr/pst[PRP[Brownfields[RRC[level III Pst/ust[TRP[es: EDD ADaPT Other: es: EDD None: NO DI Kody None: NO DI Cool: Cool Hg: 1631 / 245.1 / 7470 / 7471 HoLD HoLD Hg: 1631 / 245.1 / 7470 / 7471 Hold Hold	to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions r expenses incurred by the client if such losses are due to circumstances beyond the control ted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	sture of this document and relinquishment of samples constitutes a valid purchase order from client compai urofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses enco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample subn
COM DALLAS Company Name Program: UST/PST Program: </td <td>Ni Se Ag TI U</td> <td>Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Lexas 11 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8R</td>	Ni Se Ag TI U	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Lexas 11 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8R
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		-3') (Soil 8/2/13:37 2-3') (Soil 8/2/2-3')
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		-8 (1-2') Soil 8/13/17 13.36 1-2'
COM DALLAS company Name: Program: UST/PST PRP Brownfields BRC AS TX TS_140 City, Sane ZiP; Frad. brad.bit brad.bit brad.bit brad.bit brad.bit Brownfields BRC Reporting: ievelill Evelill Ev) Sal 2/23/22 13:35 0-1'
COM - DALLAS Company Name: Program: UST/PST PRPL BrowniedE RRC AS TX TSQL Advess: Fail bradie: Num State of Poject: NEW Reporting: Level III Level IIII Program: UST/PST PRPL BrowniedE RRC Fail AA TX TSQL Ima Dradie: Num Dradie: Num Program: UST/PST PRPL BrowniedE RRC Fail AA CTIR Tum Around Recenting: Num Recenting: Recenting: <t< td=""><td></td><td>-7 (3-4') Soil 8/23/22 12:53 3-4'</td></t<>		-7 (3-4') Soil 8/23/22 12:53 3-4'
COM DALLAS Company Name: Program: UST/PST PROgram: UST/PST PROgram: State of Project: AEM MEX.LO AS TX TS_240 City, State ZIP: Frail: broadie: How MEX.LO Reporting: Level III Level III Program: State of Project: AEM MEX.LO Reporting: Level III Level III Level III Program: ADAPT Disporting: Level III Level III Program: ADAPT Disporting: Level III Level III Level III Program: ADAPT Disporting: Level III Disporting: Level III Level III Level III Disporting: Level III Level III Level III Level III Level III Disporting: ADAPT Disporting: Level III Level III Level III Level III Level III Disporting: ADAPT Disporting: ADAPT Disporting: ADAPT Disporting: ADAPT Disporting: ADAPT Disporting: ADAPT Disporting:		7 (2-3) Soil & halter 12:52 2-3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		7 (1-2') Soil 2 hahr 12:51 1-2'
COM - DALLAS company Name: Program: USTPST[PRP[Brownfields[RRC[AS, TX TS240 City, State ZIP: City, State ZIP: City, State ZIP: Parameters Program: State of Project: NEW MEX.CO Fal. Tum Anound City, State ZIP: City, State ZIP: Program: Company Name: Program: State of Project: NEW MEX.CO Fal. Tum Anound Dradieu: Haush Program: Can Parameters Program: Con Con<		-710-1' Soil 2 hun 12:50 0-1'
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S Nort, BD STE HQD Advess: State of Project: State of Project: NEW State of Project: NEW MEW MEX New MEX State of Project: NEW MEW MEX NEW <		(0 (7 - 3') Sil 8/13/12 12:30 2.3'
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COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC AS TX TSD-40 City, State ZIP: Image: ASD-300 City, State ZIP: State of Project: AEW MEX XCO Fad. AA CTB Turn Anound bradia: hy nne@ accom com State of Project: NEW MEX XCO Fad. AA CTB Turn Anound bradia: hy nne@ accom com com Com Com State of Project: NEW MEX XCO Reporting: Level III Pstrustic No No ADaPT Other: Other: No No </td <td></td> <td>Sh3h1 17:28</td>		Sh3h1 17:28
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NORL DD., STE, UOO Address: State of Project: NEW MEW MEX State of Project: NEW MEW MEX CO AS, TX TS2, UO City, State ZIP: Finall: bradde: wynA Brownfields Reporting: Level III Level III PST/UST TRP Die Fad. TA CTB Tum Around Pres. Cont Cont Mew MEX Die Die </td <td>Chi BT TP</td> <td>Date Time Depth Sampled Sampled</td>	Chi BT TP	Date Time Depth Sampled Sampled
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RIC S NVEL DS: STE 102 City, State ZIP: State of Project: NEW MEXICO AS; TX 75240 City, State ZIP: Fradile: bradie: Winne (@ Gec.com . com Reporting: Level II Level III Level III Level III DaPT Other: Fad. 14 CTB Tum Around Pres. Code Con Con Con Con Con Con ANALYSIS REQUEST Preservative Co Fad. 34 G S. Lowely Trivi starts the day received by disopm Rest i received by disopm Rest i received by disopm None: NO Dil Avain No Thermometer ID: TVT/1 OD - Preservative Co Mone: NO Dil No Thermometer ID: TVT/1 OD - Preservative No Histor : Histor : Histor : Histor : No As 5, 0;: NaSO a No No Thermometer ID: TVT/1 OD - Preservative Co No As 5, 0;: NaSO a NaHSO circle NaBIS NaHSO circle NaBIS NaHSO circle NaBIS No No Thermometer ID: TVT/1 OD - Preservative NaBIS NaHSO circle NaBIS NaHSO circle NaBIS No No No	En Chi	\parallel
COM - DALLAS Company Name: Program: UST/PST PRP Bownfields RRC AS TX TS2.40 City, State ZIP: City, State ZIP: Beporting: Level III Level III PST/UST TRP Beporting: Level III PST/UST TRP Beporting: Level III Level III PST/UST TRP Deliverables: EDD ADaPT Other: Other: NEW MEX ADaPT Other: NEW MEX Cool Cool Cool Cool Cool MALYSIS REQUEST Preservative Co Mone: NO DI Cool: Cool Mone: NO DI Ava No Transitistic day received by 4:30pm BB Cool Cool Mone: NO DI Cool: Cool Me Ava No Thermometer ID: TVTA Dol BB Cool: Cool Me H; So; H2 H; S	890-28	Temperature Reading:
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S. NOEL L.D., STE, HOO Address: Date of Project: NEW MEXICO State of Project: NEW MEXICO AS, TX TS,240 City, State ZIP: Email: bradie: wynne@ oecom com State of Project: NEW MEXICO Reporting: Level II Level III Delverables: EDD ADaPT Other: Fad. 12 Turn Around Fest Code Con Con Con Other: Preservative Co Gad. 3. Lowelly Turn starts the day received by and 3. Lowelly Turn treceived by 4.30pm A A A B A B None: NO DI emp Blank: Ves No Wet Ice: Ves No A A A A A A A A A A A A A B A B None: NO DI Gad. 3. Lowelly Iterceived by 4.30pm B J J B J A B A B A B	e (80 +	Correction Factor:
com - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S. NOEL P.D., STE, HOO Address: City, State ZIP: Frail: bradles: Brownfields State of Project: NEW MEX XCO AS, TX TS240 Email: bradles: wynne@geccm Geccm State of Project: NEW MEX XCO - 971 - 1829 Email: bradles: wynne@geccm Geccm Com Reporting: Level III Level III Pst/UST TRRP Deliverables: EDD ADaPT Other: - 971 - 1829 Turn Around Fead Con Con Con None: NO DI - 683 - 116 State dy received by This starts the day received by State dy received by State of Project: New York Preservative Co - 602 - 703 - 704 - 704 - 704 - 704 Preservative Co - 603 - 704 - 704 - 704 - 704 - 704 Preservative Co - 604 - 704 - 704 - 704 - 704 - 704 - 705 - 704		nometer ID: TWTT_O
COM DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S. NOEL P.D., STE, HOO Address: City, State ZIP: Fradles: State of Project: NEW MEX.1C.0 AS, TX T5240 City, State ZIP: Fradles: MYNNE @ QeCem Cent Reporting: Level III Level III Level III PST/UST TRRP MEX.1C.0 Fal. 14 CTB Tum Around Fres. Cont Cont Cont Cont Cont Deliverables: EDD ADaPT Other: Gade MM Due Date: Bash Cont Mexico Mexico Mexico Mexico Mexico Mexico Mexico Mexico Mone: NO DI Gade Tastarts the day received by 4:30pm Ma Ma Ma Mexico	EP/ 2	No Wet Ice: Yes
COM DALLAS Company Name: Program: UST/PST PRP Brownfields RrC S NOEL P.D., STE, HOO Address: City, State ZIP: State of Project: NEW MEX.IC.O AS TX TS29 Email: bradies . wynne @ ge.com , com Reporting: Level III Level III Program: Other: Fal. 14 CTB Turn Around Pres. Can Can Can ANALYSIS REQUEST Preservative Co Ving NM Due Date: B	H : B)	
Com DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NOEL P.D., STE, HOO Address: State of Project: NEW MEX ICO AS, TX TS240 City, State ZIP: Email: bradley. wyn.e.@ gec.com / com Reporting: Level III Level III PST/UST TRRP Mone: NO Diliverables: EDD ADaPT Other: FaJ. 14 CTB Turn Around Pres. Coni Coni Coni Coni Coni Coni Coni Coni)	A lovely
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NOEL P.D., STE, HOD Address: Address: State of Project: NEW MEX 1C:0 AS, TX 75240 City, State ZIP: Email: bradley.wynne@geccem / com Reporting: Level III Level III PST/UST TRRP - 971 - 1829 Email: bradley.wynne@geccem / com ANALYSIS REQUEST Peisenvative Company Name: Preservative Company Name: Fal. 14 State of Project: None: NO DI AnaPT Other:		
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NOEL P.D., STE, HOD Address: Address: State of Project: NEW MEX 1C 0 AS, TX TS240 City, State ZIP: City, State ZIP: Brownfields Reporting: Level III Level III PST/UST TRRP - 971 - 1829 Email: bradley. Wynne (@ ge.com / com Com Deliverables: EDD AdaPT Other: Fail 44 CTR Tum Around ANALYSIS REQUEST Preservative Company Preservative Company	(m) Cool	ther Cocsall Aboutine
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RC S NOEL ND., STE, HOD Address: Address: State of Project: NEW MEXICO AS, TX 75240 City, State ZIP: City, State ZIP: Reporting: Level III Level III PST/UST TRP - 971 - 1829 Email: bradley. wynne @ ge(com , com) Deliverables: EDD ADaPT Other:		14 CTR
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NOEL ND., STE, 400 Address: Address: State of Project: NEW MEXICO State of Project: NEW MEXICO AS, TX 752,40 City, State ZIP: Reporting: Level III Level III PST/UST TRRP	aecom, com	1829 Email:
COM - DALLAS Company Name: Program: UST/PST PRP Brownfields RRC S NOEL P.D., STE, HOO Address: State of Project: NEW MEX1CO	Reporting: Level II Leve	AS, TX 75240
- DALLAS Company Name: Program: UST/PST PRP Brownfields	State of Project: NEW	ND. STE. 400
	Program: UST/PST PR	DALLAS
		Project Manager: BRAD WYNNE Bill to: (if differer
www.xenco.com Pageof	www.xei	
Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	7, TX (915) 585-3443, Lubbock, TX (806) 794-1296 NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
Environment Testing Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Work Order No:		

Page 121 of 259

4 5 6

12

ALLE (L) (MM	Relinguished by (Synature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its 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 service. 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		-9 (3-4') Soil 8	(2-3') Soil 8	21) 5:1 8		Sample Identification Matrix Sampled		: Yes No N/A	NIA	Yes No	Town Blank. Vac	er's Name: B.C.Lend	Project Location: Loving, NM	ber:	Project Name: Amoco Fed. 14 CTB		Te ZIP: DALLAS TX	5	AECON	Project Manager: BRAD WYNNE	- Marina	Xenco
- Charles	Acceived by: (Signature)	ites a valid purchase order from client compan all not assume any responsibility for any losses i bject and a charge of \$5 for each sample submi	8RCRA 13PPM Texas 11 TCLP / SPLP 6010 : 8RC			14:02 2-31	14:01 1-2'	111.00 0-11	Time Depth Grab/	Corrected Temperature:	Temperature Reading:)	ion-factor:	ever ID:	-	TAT starts the day received by the lab, if received by 4:30pm	Due Date:	Routine Rush	3 Turn Around	Email:	75240 City, State ZIP:	STE. 400 Address:	S Company Name:	Bill to: (if different)	Hobb	FI Pac
8/23/2215.002 4	Date/Time Reling	y to Eurofins Xenco, its affiliates and subcontracto or expenses incurred by the client if such losses ar itted to Eurofins Xenco, but not analyzed. These to	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U					X	B	TE	e× H	de (*	80	PA 21	B) M')	Code Cast Cast Cast Cast		bradley. my me @ aecom . c				C	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	FI Pasn TX (915) 585-3443 Lubbock TX (806) 794-1296
	Relinquished by: (Signature)	rs. It assigns standard terms and conditions re due to circumstances beyond the control erms will be enforced unless previously negotiat							_									ANALYSIS REQUEST	Com Deliverables:	Reporting: 1	State of Project:	Program:		98-3199	4-1006
Revis	Received by: (Signature)	Z	K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470/7471		HoLD	4-10H	Hold	HOLD	Samp	NaOH+Asci	Zn Acetate+NaOH: Zn	Na 25 20 3: NaSO 3	NaHSO 4: NABIS	H, PO ;: HP	HCL: HC	Cool: Cool	None: NO	Prese	EDD ADaPT	Reporting: Level II Level III PST/UST TRRP	NEW MEX	UST/PST PRP Brownfields	Work Order Comments	www.xenco.com Page	
Revised Date: 08/25/2020 Rev. 2020 2	Date/Time		/ Zn 171						Sample Comments	NaOH+Ascorbic Acid: SAPC	NaOH: Zn	aSO 3	ABIS		HNO 3: HN NaOH: Na	MeOH: Me	DI Water: H ₂ O	Preservative Codes	Other:	TRRP L Level IV		RRC Superfund		2 of 2	

11 12

Login Sample Receipt Checklist

Client: AECOM

Login Number: 2810 List Number: 1 Creator: Clifton, Cloe

Question	Answer Comment	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	8
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	9
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	13
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

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

Job Number: 890-2810-2 SDG Number: 60689116

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: AECOM

Login Number: 2810 List Number: 2 Creator: Rodriguez, Leticia

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

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

13

Job Number: 890-2810-2 SDG Number: 60689116

List Source: Eurofins Midland List Creation: 08/29/22 09:19 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Wallace Gilmore AECOM 19219 Katy Freeway Suite 100 Houston, Texas 77094 Generated 1/18/2023 6:33:44 PM Revision 2

JOB DESCRIPTION

amoco SDG NUMBER 60689116

JOB NUMBER

890-3573-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



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Received by OCD: 4/30/2024 7:58:36 AM

Generated

Revision 2

1/18/2023 6:33:44 PM

Eurofins Carlsbad

Job Notes

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

Authorization

Authorized for release by

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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MCL

MDA

MDC

MDL

ML MPN

MQL

NC

ND

NEG

POS

PQL

QC

RER

RPD

TEF

TEQ

TNTC

RL

PRES

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Minimum Detectable Activity (Radiochemistry)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Definitions/Classer,

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	Definitions/Glossary	
Client: AECO		
Project/Site: a	amoco SDG: 60689116	
Qualifiers		3
GC Semi VO	Α	
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
HPLC/IC		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not	
	applicable.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
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	9
%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	13
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	

Case Narrative

Job ID: 890-3573-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3573-1

REVISION

The report being provided is a revision of the original report sent on 12/8/2022. The report (revision 1) is being revised due to Revised report to run additional analysis that were on hold per client request.

Report revision history

Receipt

The samples were received on 11/30/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40946 and analytical batch 880-40965 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40946/2-A) and (LCSD 880-40946/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: AMOCO DB-5 (0-1) (890-3573-3), AMOCO DB-5 (4-5) (890-3573-6), AMOCO DB-3 (3-4) (890-3573-7), AMOCO DB-3 (4-5) (890-3573-8) and AMOCO DB-6 (0-1) (890-3573-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41544 and analytical batch 880-41555 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.

Narrative

Job Narrative 890-3573-2

Receipt

The samples were received on 11/30/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

HPLC/IC

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

Narrative

Job Narrative 890-3573-3

Receipt

Job ID: 890-3573-1 SDG: 60689116

Case Narrative Client: AECOM Job ID: 890-3573-1 Project/Site: amoco SDG: 60689116 Job ID: 890-3573-1 (Continued) Laboratory: Eurofins Carlsbad (Continued) 4 The samples were received on 11/30/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where 5 required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C HPLC/IC No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page. Narrative Job Narrative 890-3573-4 Receipt The samples were received on 11/30/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C HPLC/IC No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page. 13

Narrative

Job Narrative 890-3573-5

Receipt

The samples were received on 11/30/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

HPLC/IC

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

		Client	Sample Re	sults				
Client: AECOM Project/Site: amoco							Job ID: 890- SDG: 60	
Client Sample ID: AMOCO Date Collected: 11/29/22 12:25 Date Received: 11/30/22 08:00 Sample Depth: 0 - 1) DB-10 (0	-1)				Lab Samp	le ID: 890-3 Matrix	8 573-1 (: Solid
Method: MCAWW 300.0 - Anic Analyte		omatograj Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12900		101	mg/Kg			12/13/22 10:57	20
Client Sample ID: AMOCC Date Collected: 11/29/22 12:35 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3) DB-10 (3	-4)				Lab Samp	le ID: 890-3 Matrix	3573-2 :: Solid
Method: MCAWW 300.0 - Anic Analyte		omatograj Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		25.2	mg/Kg			12/13/22 11:04	5
Date Received: 11/30/22 08:00 Sample Depth: 0 - 0 - Method: SW846 8015 NM - Die Analyte	-	-		Unit		Prepared	Analyzed	Dil Fac
Sample Depth: 0 - 0	-	Qualifier	(DRO) (GC) 	Unit mg/Kg	D	Prepared	Analyzed 12/08/22 15:01	
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U	RL 49.9 6 (DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 12/03/22 11:09	12/08/22 15:01 Analyzed 12/04/22 00:39	Dil Fa
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Diesel Range Result	Qualifier U Organics Qualifier U	RL 49.9 6 (DRO) (GC) RL	mg/Kg Unit		Prepared 12/03/22 11:09	12/08/22 15:01 Analyzed	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U U	RL 49.9 6 (DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09	12/08/22 15:01 Analyzed 12/04/22 00:39	Dil Fa
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Diesel Range Result <49.9 <49.9	Qualifier U Organics Qualifier U U U	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09	12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+	RL 49.9 General Control RL 49.9 49.9 49.9 49.9 49.9 49.9 49.9 49.9 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared	Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09	Analyzed 12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 Analyzed	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anic	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+ omatogra	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130 Phy - Soluble	mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09 12/03/22 11:09	Analyzed 12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anic Analyte	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130 phy - Soluble RL	mg/Kg Unit mg/Kg mg/Kg mg/Kg Unit		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09	12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anic	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+ omatogra	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130 Phy - Soluble	mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09 12/03/22 11:09	12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	Dil Fac
Sample Depth: 0 - 0 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anic Analyte	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+ omatogra Qualifier	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130 phy - Soluble RL	mg/Kg Unit mg/Kg mg/Kg mg/Kg Unit	<u>D</u>	Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared	12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sample Depth: 0 - 0 Method: SW846 8015 NM - Dia Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anic Analyte Chloride Client Sample ID: AMOCC Date Collected: 11/29/22 12:50 Date Received: 11/30/22 08:00	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+ S1+ Omatogra Qualifier 3)	RL 49.9 49.9 6 (DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg mg/Kg mg/Kg Unit	<u>D</u>	Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared	12/08/22 15:01 Analyzed 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39 12/04/22 00:39	Dil Fac 1

Client: AECOM		Client	Sample Res	sults			Job ID: 890-	3573-1
Project/Site: amoco							SDG: 60	
Client Sample ID: AMOCC Date Collected: 11/29/22 12:55 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3) DB-5 (3-4	4)				Lab Samp	le ID: 890-3 Matrix	573-5 : Solid
Method: MCAWW 300.0 - Anic Analyte		omatogra Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		5.00	mg/Kg			12/13/22 11:33	1
Client Sample ID: AMOCC Date Collected: 11/29/22 13:00 Date Received: 11/30/22 08:00 Sample Depth: 4 - 4) DB-5 (4-{	5)				Lab Samp	le ID: 890-3 Matrix	573-6 : Solid
	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/08/22 15:01	1
 Method: SW846 8015B NM - D)iesel Range	Organics	(DRO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/03/22 11:09	12/04/22 01:01	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	11	50.0	mg/Kg		12/03/22 11:09	12/04/22 01.01	1
C10-C28)	400.0	0	00.0	ing/itg		12/00/22 11:00	12/04/22 01:01	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/22 11:09	12/04/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			12/03/22 11:09	12/04/22 01:01	1
o-Terphenyl	152	S1+	70 - 130			12/03/22 11:09	12/04/22 01:01	1
Method: MCAWW 300.0 - Anic	ons, Ion Chr	omatogra	phy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			1.00	mg/Kg			12/04/22 23:30	1
Chloride	277		4.98	ing/itg				1
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3) DB-3 (3-4			inging		Lab Samp	le ID: 890-3 Matrix	
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die	DB-3 (3-4) Drganics ((DRO) (GC)				Matrix	: Solid
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte	DB-3 (3-4 esel Range (Result	Organics (Qualifier	(DRO) (GC) RL	Unit	<u>D</u>	Lab Samp	Matrix Analyzed	
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH	DB-3 (3-4 esel Range (<u>Result</u> <50.0	Drganics (Qualifier U	(DRO) (GC) 		<u>D</u>		Matrix	: Solid
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	DB-3 (3-4 esel Range (Result <50.0 Diesel Range	Drganics (Qualifier U	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC)	Unit mg/Kg		Prepared	Matrix Analyzed 12/08/22 15:01	: Solid Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	DB-3 (3-4 esel Range (Result <50.0 Diesel Range	Drganics (Qualifier U Organics Qualifier	(DRO) (GC) 	Unit mg/Kg Unit	D		Matrix Analyzed 12/08/22 15:01 Analyzed	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Dample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	esel Range (Result <50.0 Diesel Range Result <50.0	Drganics (Qualifier U e Organics Qualifier U	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0	Unit mg/Kg Unit mg/Kg		Prepared Prepared 12/03/22 11:09	Matrix <u>Analyzed</u> 12/08/22 15:01 <u>Analyzed</u> 12/04/22 01:22	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	DB-3 (3-4 esel Range (Result <50.0 Diesel Range Result	Drganics (Qualifier U e Organics Qualifier U	(DRO) (GC) 	Unit mg/Kg Unit		Prepared Prepared 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Dample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range (Result <50.0 Diesel Range Result <50.0	Drganics (Qualifier U e Organics Qualifier U	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0	Unit mg/Kg Unit mg/Kg		Prepared Prepared 12/03/22 11:09 12/03/22 11:09	Matrix <u>Analyzed</u> 12/08/22 15:01 <u>Analyzed</u> 12/04/22 01:22	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	DB-3 (3-4 esel Range (Result <50.0 Diesel Range Result <50.0 <50.0	Drganics (Qualifier U Organics Qualifier U U	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 12/03/22 11:09 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed 12/04/22 01:22 12/04/22 01:22	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Dample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	DB-3 (3-4 esel Range (Result <50.0 Diesel Range Result <50.0 <50.0 <50.0 <50.0	Drganics (Qualifier U Organics Qualifier U U	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed 12/04/22 01:22 12/04/22 01:22 12/04/22 01:22	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	DB-3 (3-4 esel Range (<u>Result</u> <50.0 Diesel Range <u>Result</u> <50.0 <50.0 <50.0 <50.0	Drganics (Qualifier U Organics Qualifier U U U Qualifier	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0 50.0 50.0 50.0 <u>Limits</u>	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed 12/04/22 01:22 12/04/22 01:22 12/04/22 01:22 12/04/22 01:22	Dil Fac
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	DB-3 (3-4 esel Range (<u>Result</u> <50.0 Diesel Range <u>Result</u> <50.0 <50.0 <50.0 <50.0 250.0 (%Recovery) 131 160	Drganics (Qualifier U P Organics Qualifier U U U U Qualifier S1+ S1+	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed 12/04/22 01:22 12/04/22 01:22 12/04/22 01:22 Analyzed 12/04/22 01:22	Dil Fac 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client Sample ID: AMOCC Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00 Sample Depth: 3 - 3 Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	DB-3 (3-4 esel Range (<u>Result</u> <50.0 Diesel Range <u>Result</u> <50.0 <50.0 <50.0 <50.0 <i>%Recovery</i> 131 160 Dons, Ion Chr	Drganics (Qualifier U P Organics Qualifier U U U U Qualifier S1+ S1+	(DRO) (GC) <u>RL</u> 50.0 (DRO) (GC) <u>RL</u> 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/22 11:09 12/03/22 11:09 12/03/22 11:09 Prepared 12/03/22 11:09	Matrix Analyzed 12/08/22 15:01 Analyzed 12/04/22 01:22 12/04/22 01:22 12/04/22 01:22 Analyzed 12/04/22 01:22	Dil Fac 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Eurofins Carlsbad

Released to Imaging: 5/8/2024 1:03:13 PM

Job ID: 890-3573-1 SDG: 60689116

Client Sample ID: AMOCO DB-3 (4-5) Date Collected: 11/29/22 13:15 Date Received: 11/30/22 08:00

Sample Depth: 4 - 5

Client: AECOM

Project/Site: amoco

Method: SW846 8015 NM - Die Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			12/08/22 15:01	
Method: SW846 8015B NM - D	Diesel Range	e Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/22 11:09	12/04/22 01:44	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/22 11:09	12/04/22 01:44	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/22 11:09	12/04/22 01:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	131	S1+	70 - 130			12/03/22 11:09	12/04/22 01:44	
o-Terphenyl	156	S1+	70 - 130			12/03/22 11:09	12/04/22 01:44	
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	313		4.98	mg/Kg			12/05/22 00:03	
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5			ahur Calubla			ab Sample	e ID: 890-35 Matrix	
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio	ons, Ion Chr		ohy - Soluble RL	Unit	D	Prepared		c: Soli
Client Sample ID: AMOCC Date Collected: 11/29/22 13:45 Date Received: 11/30/22 08:00 Dample Depth: 4 - 5 Method: MCAWW 300.0 - Anic Analyte Chloride	ons, Ion Chr	omatogra		Unit mg/Kg			Matrix	c: Soli
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chloride Client Sample ID: AMOCC ate Collected: 11/29/22 14:45 ate Received: 11/30/22 08:00	ons, Ion Chr Result 457	omatograj Qualifier			<u>D</u>	Prepared	Matrix	Dil Fa
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chloride Client Sample ID: AMOCC ate Collected: 11/29/22 14:45 ate Received: 11/30/22 08:00 ample Depth: 0 - 1	ons, Ion Chr Result 457 D DB-8 (0-' ons, Ion Chr	omatograg Qualifier 1) omatograg	<u></u>		<u>D</u>	Prepared	Matrix Analyzed 12/05/22 00:27 2 ID: 890-35	c: Soli Dil Fa 573-2
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chlorid	ons, Ion Chr Result 457 D DB-8 (0-' ons, Ion Chr	omatograp Qualifier 1)	RL 5.00		<u>D</u>	Prepared	Matrix Analyzed 12/05/22 00:27 2 ID: 890-35	c: Soli Dil Fa 573-2
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chloride Elient Sample ID: AMOCC ate Collected: 11/29/22 14:45 ate Received: 11/30/22 08:00 ample Depth: 0 - 1 Method: MCAWW 300.0 - Anio Analyte	ons, Ion Chr Result 457 D DB-8 (0-' ons, Ion Chr	omatograg Qualifier 1) omatograg	RL 5.00	mg/Kg	D	Prepared .ab Sample	Matrix Analyzed 12/05/22 00:27 D: 890-35 Matrix	C: Soli
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chloride Client Sample ID: AMOCC ate Collected: 11/29/22 14:45 ate Received: 11/30/22 08:00 ample Depth: 0 - 1 Method: MCAWW 300.0 - Anio Analyte Chloride	ons, Ion Chr Result 457 D DB-8 (0-* DB-8 (0-* DDB-8 (0-*))))))))))))))))))))))))))))))))))))	omatograj Qualifier 1) omatograj Qualifier	RL 5.00	mg/Kg	D	Prepared .ab Sample	Matrix Analyzed 12/05/22 00:27 D: 890-35 Matrix	C: Soli
ate Collected: 11/29/22 13:45 ate Received: 11/30/22 08:00 ample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte Chloride Chloride Chloride Chloride Chloride 11/29/22 14:45 ate Received: 11/30/22 08:00 ample Depth: 0 - 1 Method: MCAWW 300.0 - Anio Analyte Chloride Chloride Chloride Chloride Chloride Chloride Chloride	ons, Ion Chr Result 457 D DB-8 (0-* ons, Ion Chr Result 889 D DB-8 (2-4	omatograj Qualifier 1) omatograj Qualifier	RL 5.00	mg/Kg	D	Prepared .ab Sample	Matrix Analyzed 12/05/22 00:27 2 ID: 890-35 Matrix Matrix 12/13/22 11:40	<u>Dil Fa</u> 073-2 c: Soli <u>Dil Fa</u> 073-2
Date Collected: 11/29/22 13:45 Date Received: 11/30/22 08:00 Dample Depth: 4 - 5 Method: MCAWW 300.0 - Anio Analyte	ons, Ion Chr Result 457 D DB-8 (0-* DDS, Ion Chr Result 889 D DB-8 (2-* DDB-8 (2-*	omatograp Qualifier 1) omatograp Qualifier 3)	RL 5.00 bhy - Soluble RL 5.03	mg/Kg	D	Prepared .ab Sample	Matrix Analyzed 12/05/22 00:27 ID: 890-35 Matrix Analyzed 12/13/22 11:40 ID: 890-35	<u>Dil Fa</u> 073-2 c: Soli <u>Dil Fa</u> 073-2

Lab Sample ID: 890-3573-8 Matrix: Solid

5

e e e e e e e e e e e e e e e e e e e	Clion	t Sampla Pa	sulto			6	
Client: AECOM	Clien	t Sample Res	Suits			Job ID: 890-	3573 1
Project/Site: amoco						SDG: 60	
Client Sample ID: AMOCO Date Collected: 11/29/22 14:50 Date Received: 11/30/22 08:00 Sample Depth: 3 - 4	DB-8 (3-4)			L	ab Sample	e ID: 890-35 Matrix	573-26 (: Solid
Method: MCAWW 300.0 - Anio	ns. Ion Chromatogra	aphy - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197	4.98	mg/Kg			12/13/22 11:55	1
Client Sample ID: AMOCO Date Collected: 11/29/22 15:10 Date Received: 11/30/22 08:00 Sample Depth: 0 - 1	DB-6 (0-1)			L	ab Sample	e ID: 890-35 Matrix	573-32 (: Solid
Method: SW846 8015 NM - Die Analyte	esel Range Organics Result Qualifier	(DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.4	49.9	mg/Kg			12/08/22 15:01	1
 Method: SW846 8015B NM - D	iocol Pongo Organio						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9 U	49.9	mg/Kg		12/03/22 11:09	12/04/22 02:06	1
(GRO)-C6-C10 Diesel Range Organics (Over	52.4	49.9	mg/Kg		12/03/22 11:09	12/04/22 02:06	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9 U	49.9	mg/Kg		12/03/22 11:09	12/04/22 02:06	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125	70 - 130			<u> </u>	12/04/22 02:06	1
o-Terphenyl	148 S1+	70 - 130			12/03/22 11:09	12/04/22 02:06	1
Method: MCAWW 300.0 - Anio	ns Ion Chromatogra	anhy - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2830	24.9	mg/Kg			12/05/22 00:35	5
Client Sample ID: AMOCO Date Collected: 11/29/22 15:12 Date Received: 11/30/22 08:00 Sample Depth: 2 - 3	DB-6 (2-3)			L	ab Sample	e ID: 890-35 Matrix	573-33 (: Solid
Method: MCAWW 300.0 - Anio Analyte	ns, Ion Chromatogra Result Qualifier	aphy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<u>999</u>	4.96	mg/Kg			12/13/22 12:02	1
Client Sample ID: AMOCO Date Collected: 11/29/22 15:14 Date Received: 11/30/22 08:00 Sample Depth: 3 - 4	DB-6 (3-4)			L	ab Sample	e ID: 890-35 Matrix	573-34 (: Solid
Method: MCAWW 300.0 - Anio	ns, Ion Chromatogra	aphy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

		omatograp						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	917		5.04	mg/Kg			12/13/22 12:23	1

	Client	Sample Res	sults				
Client: AECOM		-				Job ID: 890	
Project/Site: amoco						SDG: 60	0689116
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:16 Date Received: 11/30/22 08:00 Sample Depth: 4 - 5	DB-6 (4-5)			Li	ab Sample	e ID: 890-3 Matri	573-35 x: Solic
Method: MCAWW 300.0 - Anion Analyte	s, Ion Chromatograp Result Qualifier	hy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	738	5.04	mg/Kg			12/19/22 22:34	1
Client Sample ID: AMOCO I Date Collected: 11/29/22 16:18 Date Received: 11/30/22 08:00 Sample Depth: 5 - 6	DB-6 (5-6)			La	ab Sample	e ID: 890-3 Matri	573-36 x: Solic
Method: MCAWW 300.0 - Anion Analyte	s, Ion Chromatograp Result Qualifier	h <mark>y - Soluble</mark> RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	717 guainer	5.00	mg/Kg		Toparou	12/30/22 09:31	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:22 Date Received: 11/30/22 08:00 Sample Depth: 7 - 8	DB-6 (7-8)			La	ab Sample	e ID: 890-3 Matri	573-38 x: Solic
Method: MCAWW 300.0 - Anion Analyte	Result Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	205	5.04	mg/Kg			01/13/23 14:06	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:24 Date Received: 11/30/22 08:00 Sample Depth: 8 - 4	DB-6 (8-9)			Li	ab Sample	e ID: 890-3 Matri	573-39 x: Solic
	s, Ion Chromatograp	hy - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.5	4.98	mg/Kg			01/17/23 21:17	-
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:32 Date Received: 11/30/22 08:00 Sample Depth: 4 - 5	DB-1 (4-5)			La	ab Sample	e ID: 890-3 Matri	573-4(x: Solic
	s, Ion Chromatograp	hy - Soluble					
Analyte	Result Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	2680	24.8	mg/Kg			12/05/22 00:43	Ę
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:34 Date Received: 11/30/22 08:00	DB-1 (5-6)			Li	ab Sample	e ID: 890-3 Matri	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:34 Date Received: 11/30/22 08:00 Sample Depth: 5 - 6 Method: MCAWW 300.0 - Anion Analyte	. ,	hy - Soluble RL	Unit	L:	Ab Sample		573-41 x: Solid

	C	lient Sa	mple Re	sults				
Client: AECOM Project/Site: amoco			-				Job ID: 890 SDG: 60	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:36 Date Received: 11/30/22 08:00 Sample Depth: 6 - 7	DB-1 (6-7)				La	ab Sampl	e ID: 890-3 Matriz	573-42 x: Solic
Method: MCAWW 300.0 - Anions	s, Ion Chroma Result Qua		Soluble	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2100		24.9	mg/Kg	_ <u> </u>		12/19/22 22:39	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:38 Date Received: 11/30/22 08:00 Sample Depth: 7 - 8	DB-1 (7-8)				La	ab Sampl	e ID: 890-3 Matrix	573-43 x: Solic
_ Method: MCAWW 300.0 - Anions Analyte	s, Ion Chroma Result Qua		Soluble	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1310		4.96	mg/Kg			12/30/22 09:36	
Date Collected: 11/29/22 15:45 Date Received: 11/30/22 08:00 Sample Depth: 0 - 1 Method: MCAWW 300.0 - Anions	s, Ion Chroma	tography -	Soluble				e ID: 890-3 Matriz	x: Solic
Analyte	Result Qua		RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5800		50.3	mg/Kg			12/13/22 12:52	10
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:47 Date Received: 11/30/22 08:00 Sample Depth: 2 - 3	DB-7 (2-3)				La	ab Sampl	e ID: 890-3 Matrix	573-4 8 x: Solic
Method: MCAWW 300.0 - Anions	s, Ion Chroma	tography -	Soluble					
Analyte	Result Qua	lifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	680		5.00	mg/Kg			12/13/22 13:00	
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:50 Date Received: 11/30/22 08:00 Sample Depth: 3 - 4	DB-7 (3-4)				La	ab Sampl	e ID: 890-3 Matrix	573-46 x: Solic
Method: MCAWW 300.0 - Anions	s, Ion Chroma	tography -	Soluble					
Analyte	Result Qua	lifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1630		24.9	mg/Kg			12/13/22 13:07	:
Client Sample ID: AMOCO I Date Collected: 11/29/22 15:52 Date Received: 11/30/22 08:00 Sample Depth: 4 - 5	DB-7 (4-5)				L	ab Sampl	e ID: 890-3 Matrix	573-47 x: Solic
		tography	0					
Method: MCAWW 300.0 - Anions Analyte	Result Qua		RL	Unit	D	Prepared	Analyzed	Dil Fac

01 1 1 5 0 0 1	Client	Sample Res	sults				0.570
Client: AECOM Project/Site: amoco						Job ID: 890 SDG: 60	
Client Sample ID: AMOCO Date Collected: 11/29/22 15:55 Date Received: 11/30/22 08:00 Sample Depth: 5 - 6	DB-7 (5-6)			L	ab Sampl	e ID: 890-3	
Method: MCAWW 300.0 - Anion	is, Ion Chromatograj Result Qualifier	-			Duran and	Amelyanad	Dil Fa
Analyte Chloride	3880 Quaimer		Unit mg/Kg	D	Prepared	Analyzed 12/19/22 22:52	
Client Sample ID: AMOCO Date Collected: 11/29/22 15:57 Date Received: 11/30/22 08:00 Sample Depth: 6 - 7	DB-7 (6-7)			L	ab Sampl	e ID: 890-3 Matri	573-49 x: Solie
Method: MCAWW 300.0 - Anion Analyte	s, Ion Chromatogra Result Qualifier	phy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	4250	49.6	mg/Kg		Tiopulou	12/30/22 09:40	
Client Sample ID: AMOCO Date Collected: 11/29/22 16:00 Date Received: 11/30/22 08:00 Sample Depth: 7 - 8						e ID: 890-3 Matri	x: Solic
Method: MCAWW 300.0 - Anion Analyte	s, Ion Chromatogra Result Qualifier	p <mark>hy - Soluble</mark> RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1330	4.97	mg/Kg		-	01/13/23 14:12	
Client Sample ID: AMOCO Date Collected: 11/29/22 16:15 Date Received: 11/30/22 08:00 Sample Depth: 0 - 1	DB-4 (0-1)			L	ab Sampl	e ID: 890-3 Matri	573-51 x: Solic
Method: MCAWW 300.0 - Anion		phy - Soluble					
Analyte Chloride	Result Qualifier 8310	RL	Unit mg/Kg	D	Prepared	Analyzed 12/05/22 00:52	Dil Fa
		100	ing/itg				
Client Sample ID: AMOCO Date Collected: 11/29/22 16:20 Date Received: 11/30/22 08:00 Sample Depth: 3 - 4	DB-4 (3-4)			L	ab Sampi	e ID: 890-3 Matri	573-52 x: Solic
Method: MCAWW 300.0 - Anion		phy - Soluble					
Analyte Chloride	Result Qualifier		Unit mg/Kg	D	Prepared	Analyzed 12/05/22 01:00	Dil Fa
		25.0	ilig/Kg				
Client Sample ID: AMOCO Date Collected: 11/29/22 16:23	DB-4 (4-5)			L	ab Sampl	e ID: 890-3 Matri	573-53 x: Solic
Date Received: 11/30/22 08:00							
Date Received: 11/30/22 08:00 Sample Depth: 4 - 5 Method: MCAWW 300.0 - Anion Analyte	is, Ion Chromatograj Result Qualifier	ohy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

		Client S	Sample Res	sults					
Client: AECOM Project/Site: amoco							Job ID: 890 SDG: 60		2
Client Sample ID: DUP Date Collected: 11/29/22 00:	00				L	ab Sampl	e ID: 890-35 Matrix	573-56 k: Solid	
Date Received: 11/30/22 08:		omatograph	w - Soluble						4
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	8900		99.6	mg/Kg			12/19/22 23:01	20	6
									8
									9
									13

Job ID: 890-3573-1 SDG: 60689116

Prep Type: Total/NA

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

Matrix: Solid

Client: AECOM Project/Site: amoco

-					Λ
			•	ate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-3573-3	AMOCO DB-5 (0-1)	160 S1+	183 S1+		
890-3573-6	AMOCO DB-5 (4-5)	127	152 S1+		6
890-3573-7	AMOCO DB-3 (3-4)	131 S1+	160 S1+		
890-3573-8	AMOCO DB-3 (4-5)	131 S1+	156 S1+		7
890-3573-32	AMOCO DB-6 (0-1)	125	148 S1+		
LCS 880-40946/2-A	Lab Control Sample	158 S1+	178 S1+		8
LCSD 880-40946/3-A	Lab Control Sample Dup	146 S1+	153 S1+		0
MB 880-40946/1-A	Method Blank	193 S1+	218 S1+		9
Surrogate Legend					
1CO = 1-Chlorooctane					10

OTPH = o-Terphenyl

QC Sample Results

Job ID: 890-3573-1 SDG: 60689116

Client: AECOM Project/Site: amoco

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

	6/1-A						•	Client Samp			
Matrix: Solid									Prep Typ		
Analysis Batch: 40965									Prep Ba	atch:	40940
	MB	MB									
Analyte	Result	Qualifier	RL		Unit		D	Prepared	Analyze	d	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/K	g		12/03/22 11:09	12/03/22 1	6:48	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg	g		12/03/22 11:09	12/03/22 1	6:48	
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg	g		12/03/22 11:09	12/03/22 1	6:48	
		MB									
Surrogate	%Recovery		Limits				-	Prepared	Analyze		Dil Fa
1-Chlorooctane	193	S1+	70 - 130					12/03/22 11:09	12/03/22 1	6:48	
o-Terphenyl	218	S1+	70 - 130					12/03/22 11:09	12/03/22 1	6:48	
Lab Sample ID: LCS 880-409	46/2-A					Clie	ent	Sample ID:	Lab Cont	rol Sa	ampl
Matrix: Solid									Prep Typ		
Analysis Batch: 40965									Prep Ba	atch:	4094
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
Gasoline Range Organics			1000	787.5		mg/Kg			70 - 130		
(GRO)-C6-C10						0 0					
Diesel Range Organics (Over C10-C28)			1000	1294		mg/Kg		129	70 - 130		
	LCS LC	S									
Surrogate %	LCS LC Recovery Qu		Limits								
Surrogate %		alifier	Limits 70 - 130								
	6Recovery Qu	alifier									
1-Chlorooctane o-Terphenyl	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130		C	lient S	am	ple ID: Lab	Control S	ampl	e Du
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130		С	lient S	am	ple ID: Lab			
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130		с	lient S	am	ple ID: Lab	Ргер Тур	e: To	tal/N
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130 70 - 130	LCSD		lient S	am	ple ID: Lab	Prep Typ Prep Ba	e: To	tal/N 4094
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130 70 - 130 Spike	LCSD Result	LCSD		am	-	Prep Typ Prep Ba %Rec	e: Tot atch:	tal/N 4094 RP
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130 70 - 130			Lient S	am	<mark>□ %Rec</mark>	Prep Typ Prep Ba	e: To	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	6 Recovery Qu. 158 S1- 178 S1-	alifier	70 - 130 70 - 130 Spike Added	Result	LCSD	Unit	am	D %Rec	Prep Typ Prep Ba %Rec Limits	e: Tot atch: RPD	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	6Recovery Qui 158 S1- 178 S1- 9946/3-A	alifier	70 - 130 70 - 130 Spike Added 1000	Result 765.1	LCSD	Unit mg/Kg	am	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	6Recovery Qui 158 S1- 178 S1- 178 S1- 1946/3-A	SD	70 - 130 70 - 130 Spike Added 1000	Result 765.1	LCSD	Unit mg/Kg	am 	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	6Recovery Qui 158 S1- 178 S1- 178 S1- 1946/3-A LCSD LC: 6Recovery Qui	alifier	70 - 130 70 - 130 Spike Added 1000 1000	Result 765.1	LCSD	Unit mg/Kg	am	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %	ARecovery Qui 158 S1- 178 S1- 1946/3-A - LCSD LC: ARecovery Qui 146 S1-	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 765.1	LCSD	Unit mg/Kg	am	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % 1-Chlorooctane o-Terphenyl	6Recovery Qui 158 S1- 178 S1- 1946/3-A - 6Recovery Qui 6Recovery Qui 146 S1- 153 S1-	SD alifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 765.1	LCSD	Unit mg/Kg	am	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analysis Batch: 40965 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % 1-Chlorooctane o-Terphenyl	6Recovery Qui 158 S1- 178 S1- 1946/3-A - 6Recovery Qui 6Recovery Qui 146 S1- 153 S1-	SD alifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 765.1	LCSD	Unit mg/Kg	am 	D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 3	tal/N 4094 RP Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate o-Terphenyl Method: 300.0 - Anions, I Lab Sample ID: MB 880-4072	ARecovery Qui 158 S1- 178 S1- 1946/3-A Image: Constraint of the second secon	SD alifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 765.1	LCSD	Unit mg/Kg		D <u>%Rec</u>	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 3 16	tal/N 4094 RP Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<i>kRecovery Qui</i> 158 S1- 178 S1- 1946/3-A - <i>kCSD LCS kCSD LC kRecovery Qui</i> 146 S1- 153 S1- On Chrom <i>k8</i> /1-A	SD alifier + + + + + + atograp	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 765.1	LCSD	Unit mg/Kg		D <u>%Rec</u> 77 110	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 3 16	tal/N. 4094 RP Lim 2 2 2 Blan
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-40 Matrix: Solid Analysis Batch: 40965 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate o-Terphenyl Aethod: 300.0 - Anions, I Lab Sample ID: MB 880-4072 Matrix: Solid	6Recovery Qui 158 S1- 178 S1- 9946/3-A 9946/3-A 0946/3-A 6Recovery Qui 146 S1- 153 S1- 0n Chrom 88/1-A MB	SD alifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 765.1	LCSD	Unit mg/Kg		D <u>%Rec</u> 77 110	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 3 16	tal/N/ 4094 RP Lim 2 2 2 Blan

Client: AECOM Project/Site: amoco

QC Sample Results

Job ID: 890-3573-1 SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4 Matrix: Solid	40728/2-A					Clier	it Sai	nple ID	: Lab Cor Prep Ty		
Analysis Batch: 40962											
			Spike	-	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	260.7		mg/Kg		104	90 - 110		
Lab Sample ID: LCSD 880 Matrix: Solid	-40728/3-A				C	Client Sa	mple	ID: Lab	Control Prep Ty		
Analysis Batch: 40962											
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	260.3		mg/Kg		104	90 - 110	0	20
Lab Sample ID: 890-3573- Matrix: Solid	6 MS					Clie	ent Sa	ample I	D: AMOC Prep Ty		
Analysis Batch: 40962											
		Sample	Spike	-	MS		_	~ -	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	277		249	516.0		mg/Kg		96	90 - 110		
Lab Sample ID: 890-3573- Matrix: Solid	6 MSD					Clie	ent Sa	ample I	D: AMOC Prep Ty		
Analysis Batch: 40962	. .		• •						~ -		
	Sample	Sample	Spike	-	MSD	,	_	~-	%Rec		RPD
										RPD	Limit
Analyte Chloride Lab Sample ID: MB 880-4 Matrix: Solid	277	Qualifier	Added 249	515.8	Qualifier	Unit mg/Kg	_ D Clie	%Rec 96	Limits 90 - 110 Iple ID: M Prep Ty	0 ethod l	20 Blank
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555	277 1544/1-A	MB MB	249	515.8		mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty	ethod I ype: Sc	20 Blank bluble
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte	277 1544/1-A Re	MB MB	249	515.8	Unit	mg/Kg	Clie	96	90 - 110 ple ID: M Prep Ty Analyz	0 ethod I ype: Sc	20 Blank Diuble Dil Fac
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555	277 1544/1-A Re	MB MB	249	515.8		mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty	0 ethod I ype: Sc	20 Blank Dluble Dil Fac
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride	277 1544/1-A 	MB MB	249	515.8	Unit	mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty 	0 ethod I ype: Sc zed 09:01	20 Blank bluble Dil Fac 1
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4	277 1544/1-A 	MB MB	249	515.8	Unit	mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor	ethod I ype: So zed 09:01	20 Blank bluble Dil Fac 1 umple
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride	277 1544/1-A 	MB MB	249	515.8	Unit	mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty 	ethod I ype: So zed 09:01	20 Blank bluble Dil Fac 1 umple
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid	277 1544/1-A 	MB MB	249	515.8 RL 5.00	Unit	mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor	ethod I ype: So zed 09:01	20 Blank bluble Dil Fac 1 umple
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid	277 1544/1-A 	MB MB	249	515.8 RL 5.00 LCS	Unit mg/K	mg/Kg	Clie	96 ent Sam	90 - 110 ple ID: M Prep Ty 	ethod I ype: So zed 09:01	20 Blank bluble Dil Fac 1 umple
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555	277 1544/1-A 	MB MB	249 -	515.8 RL 5.00 LCS	Unit mg/K	g Clier	Clie P	96 ent Sam repared mple ID	90 - 110 ple ID: M Prep Ty 	ethod I ype: So zed 09:01	20 Blank bluble Dil Fac 1 mple
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880	277 1544/1-A 	MB MB	249 	515.8 RL 5.00 LCS Result	LCS Qualifier	g Clier Unit mg/Kg	Clie P D	96 ent Sam repared mple ID <u>%Rec</u> 100	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 • Control	ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc Sample	20 Blank bluble Dil Fac 1 mple bluble
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid	277 1544/1-A 	MB MB	249 	515.8 RL 5.00 LCS Result	LCS Qualifier	g Clier Unit mg/Kg	Clie P D	96 ent Sam repared mple ID <u>%Rec</u> 100	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110	ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc Sample	20 Blank bluble Dil Fac 1 mple bluble
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880	277 1544/1-A 	MB MB	249 	RL 5.00 LCS Result 250.8	LCS Qualifier	g Clier Unit mg/Kg	Clie P D	96 ent Sam repared mple ID <u>%Rec</u> 100	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 • Control	ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc Sample	20 Blank bluble Dil Fac 1 mple bluble
Chloride Lab Sample ID: MB 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid	277 1544/1-A 	MB MB	249 Spike Added 250	515.8 RL 5.00 LCS Result 250.8	Unit mg/K LCS Qualifier	g Clier Unit mg/Kg	Clie P D	96 ent Sam repared mple ID <u>%Rec</u> 100	90 - 110 ple ID: M Prep Ty 212/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control Ty Prep Ty	ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc Sample	20 Blank bluble Dil Fac 1 mple bluble e Dup bluble RPD
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555	277 1544/1-A 	MB MB	249 Spike Added 250 Spike	515.8 RL 5.00 LCS Result 250.8	Unit mg/K LCS Qualifier	g Clien Unit mg/Kg Client Sar	Clie P nt Sai	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat	90 - 110 ple ID: M Prep Ty 	ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc Sample ype: Sc	20 Blank bluble Dil Fac 1 mple bluble e Dup bluble RPD
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Chloride Chloride	277 1544/1-A 	MB MB	249 Spike Added 250 Spike Added	515.8 RL 5.00 LCS Result 250.8 LCSD Result	Unit mg/K LCS Qualifier	g Clien Unit mg/Kg Client Sau Unit mg/Kg	Clie P P nt Sau D mple	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 99	90 - 110 ple ID: M Prep Ty Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control a Prep Ty %Rec Limits 90 - 110	0 ethod I ype: Sc 2ed 09:01 htrol Sa ype: Sc ype: Sc ype: Sc ype: Sc 20 20 20 20 20 20 20 20 20 20 20 20 20	20 Blank bluble Dil Fac 1 mple bluble BDup bluble RPD Limit 20
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: 890-3573-	277 1544/1-A 	MB MB	249 Spike Added 250 Spike Added	515.8 RL 5.00 LCS Result 250.8 LCSD Result	Unit mg/K LCS Qualifier	g Clien Unit mg/Kg Client Sau Unit mg/Kg	Clie P P nt Sau D mple	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 99	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control S Prep Ty %Rec Limits 90 - 110 D: AMOC	0 ethod I ype: Sc 09:01 atrol Sa ype: Sc Sample ype: Sc <u>RPD</u> 1 0 DB-6	20 Blank pluble Dil Fac 1 mple pluble Bluble RPD Limit 20 5 (2-3)
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: 890-3573- Matrix: Solid	277 1544/1-A 	MB MB	249 Spike Added 250 Spike Added	515.8 RL 5.00 LCS Result 250.8 LCSD Result	Unit mg/K LCS Qualifier	g Clien Unit mg/Kg Client Sau Unit mg/Kg	Clie P P nt Sau D mple	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 99	90 - 110 ple ID: M Prep Ty Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control a Prep Ty %Rec Limits 90 - 110	0 ethod I ype: Sc 09:01 atrol Sa ype: Sc Sample ype: Sc <u>RPD</u> 1 0 DB-6	20 Blank bluble Dil Fac 1 mple bluble e Dup bluble RPD Limit 20 5 (2-3)
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: 890-3573-	277 1544/1-A 	MB MB sult Qualifier 5.00 U	249 Spike Added 250 Spike Added 250	RL 5.00 LCS Result 250.8 LCSD Result 248.3	LCS Qualifier	g Clien Unit mg/Kg Client Sau Unit mg/Kg	Clie P P nt Sau D mple	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 99	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control 9 %Rec Limits 90 - 110 0 Control 9 %Rec Prep Ty	0 ethod I ype: Sc 09:01 atrol Sa ype: Sc Sample ype: Sc <u>RPD</u> 1 0 DB-6	20 Blank bluble Dil Fac 1 mple bluble e Dup bluble RPD Limit 20 5 (2-3)
Chloride Lab Sample ID: MB 880-4* Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCS 880-4 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 41555 Analyte Chloride Lab Sample ID: 890-3573- Matrix: Solid	277 1544/1-A 	MB MB	249 Spike Added 250 Spike Added	RL 5.00 LCS Result 250.8 LCSD Result 248.3	Unit mg/K LCS Qualifier	g Clien Unit mg/Kg Client Sau Unit mg/Kg	Clie P P nt Sau D mple	96 ent Sam repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 99	90 - 110 ple ID: M Prep Ty - Analyz 12/13/22 : Lab Cor Prep Ty %Rec Limits 90 - 110 0 Control S Prep Ty %Rec Limits 90 - 110 D: AMOC	0 ethod I ype: Sc 09:01 atrol Sa ype: Sc Sample ype: Sc <u>RPD</u> 1 0 DB-6	20 Blank bluble Dil Fac 1 mple bluble Pluble RPD Limit 20 5 (2-3)

Eurofins Carlsbad

Released to Imaging: 5/8/2024 1:03:13 PM

1/18/2023 (Rev. 2)

Client: AECOM Project/Site: amoco

QC Sample Results

Job ID: 890-3573-1 SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3573-33 MSD								Clier	nt S	ample I	D: AMOC		
Matrix: Solid Analysis Batch: 41555											Prep Ty	/pe: So	oluble
	nple	San	nnlo	Spike		MSD	MSD				%Rec		RPD
	sult		•	Added		-	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	999			248		1208		mg/Kg		84	90 - 110	3	20
Γ													
Lab Sample ID: MB 880-41923/1-A									Clie	ent Sam	ple ID: M		
Matrix: Solid											Prep Ty	/pe: 50	oluble
Analysis Batch: 42049		мв	МВ										
Analyte			Qualifier		RL		Unit	D	Р	repared	Analyz	ed	Dil Fac
Chloride		5.00			5.00		mg/K				12/19/22		1
							-	-					
Lab Sample ID: LCS 880-41923/2-	Α							Client	t Sa	mple ID	: Lab Cor		-
Matrix: Solid											Prep Ty	/pe: So	oluble
Analysis Batch: 42049				Cuika		1.00	LCS				%Rec		
Analyte				Spike Added			Qualifier	Unit	D	%Rec	Limits		
Chloride				250		235.6		mg/Kg		<u>94</u>	90 - 110		
				200		200.0		ing/itg		54	50-110		
Lab Sample ID: LCSD 880-41923/	3-A						C	lient San	nple	ID: Lab	Control	Sampl	e Dup
Matrix: Solid											Prep Ty	/pe: S	oluble
Analysis Batch: 42049													
				Spike		LCSD	LCSD				%Rec		RPD
Analyte				Added			Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride				250		237.1		mg/Kg		95	90 - 110	1	20
Lab Sample ID: MB 880-42706/1-A									Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Solid	•								•	ont oun	Prep Ty		
Analysis Batch: 42917													
		MB	MB										
Analyte			Qualifier		RL		Unit	<u>D</u>	P	repared	Analyz		Dil Fac
Chloride	<5	5.00	U		5.00		mg/K	g			12/30/22	07:55	1
Lab Sample ID: LCS 880-42706/2-	^							Client	- S a	mplo ID	: Lab Cor	trol S	amplo
Matrix: Solid	^							Chem	Ja		Prep Ty		
Analysis Batch: 42917											i iep ij	/pc. 0	olubic
				Spike		LCS	LCS				%Rec		
Analyte				Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride				250		266.0		mg/Kg		106	90 - 110		
													_
Lab Sample ID: LCSD 880-42706/3	3-A						C	lient San	nple	ID: Lab			
Matrix: Solid											Prep Ty	/pe: 50	oluble
Analysis Batch: 42917				Spike			LCSD				%Rec		RPD
Analyte				Added			Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride				250		274.9		mg/Kg		110	90 - 110	3	20
								5 5					
Lab Sample ID: MB 880-43763/1-A									Clie	ent Sam	ple ID: M		
Matrix: Solid											Prep Ty	/pe: So	oluble
Analysis Batch: 43805													
			MB		יח		11	~	-	ronord	A	ad	
Analysis Batch: 43805 Analyte Chloride	Re		Qualifier		RL 5.00		Unit 	<u></u> <u>D</u>	P	repared	Analyz 01/12/23		Dil Fac

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QC Sample Results

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Job ID: 890-3573-1 SDG: 60689116

Project/Site: amoco Method: 300.0

Client: AECOM

Lab Sample ID: LCS 880-43763/2-A						Clio	nt Sa	nnlo ID	: Lab Con	trol Sa	mnla
Matrix: Solid	•					Cile	int Sai	inple iD	Prep Ty		
Analysis Batch: 43805									Fieh i	/pe. 30	Jubi
Analysis Datch. 40000			Spike	LCS	LCS				%Rec		
Analyte			Added	_	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	236.9		mg/Kg		95	90 - 110		
Lab Sample ID: LCSD 880-43763/3	-A				c	lient Sa	ample	ID: Lab	Control	Sample	e Dui
Matrix: Solid									Prep Ty		
Analysis Batch: 43805											
			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride			250	235.5		mg/Kg		94	90 - 110	1	2
Lab Sample ID: MB 880-44148/1-A							Clie	ent Sam	ple ID: M	ethod	Blan
Matrix: Solid									· Prep Ty		
Analysis Batch: 44156										•	
-	MB	MB									
Analyte	Result	Qualifier		RL	Unit		D P	repared	Analyz	ed	Dil Fa
Chloride	<5.00	U				a			0.4.147/00	11.05	
Chionde		0		5.00	mg/K	y			01/17/23	14.05	
		0		5.00	mg/K	-	nt Sai	nple ID	01/17/23 : Lab Con		ample
Lab Sample ID: LCS 880-44148/2-A		0		5.00	Шġ/К	-	nt Sai	mple ID		trol Sa	
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156		0		5.00	Шġ/ĸ	-	nt Sai	nple ID	: Lab Con	trol Sa	
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid		0	Spike		LCS	-	nt Sai	nple ID	: Lab Con	trol Sa	
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte			Added	LCS Result	-	Clie	nt Sai	%Rec	: Lab Con Prep Ty %Rec Limits	trol Sa	
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte			•	LCS	LCS	Clie		·	: Lab Con Prep Ty %Rec	trol Sa	
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156			Added	LCS Result	LCS Qualifier	Clie Unit mg/Kg	D	%Rec 102	: Lab Con Prep Ty %Rec Limits	itrol Sa /pe: So	oluble
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte Chloride Lab Sample ID: LCSD 880-44148/3			Added	LCS Result	LCS Qualifier	Clie Unit mg/Kg	D	%Rec 102	: Lab Con Prep Ty %Rec Limits 90 - 110	trol Sa /pe: So Sample	əlublo
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte Chloride			Added	LCS Result	LCS Qualifier	Clie Unit mg/Kg	D	%Rec 102	: Lab Con Prep Ty %Rec Limits 90 - 110 Control S	trol Sa /pe: So Sample	əlublo
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte Chloride Lab Sample ID: LCSD 880-44148/3- Matrix: Solid			Added	LCS Result	LCS Qualifier	Clie Unit mg/Kg	D	%Rec 102	: Lab Con Prep Ty %Rec Limits 90 - 110 Control S	trol Sa /pe: So Sample	e Dup
Lab Sample ID: LCS 880-44148/2-A Matrix: Solid Analysis Batch: 44156 Analyte Chloride Lab Sample ID: LCSD 880-44148/3- Matrix: Solid			Added 250	LCS Result 254.0	LCS Qualifier	Clie Unit mg/Kg	D	<mark>%Rec</mark> 102 ID: Lab	: Lab Con Prep Ty %Rec Limits 90 - 110 Control S Prep Ty	trol Sa /pe: So Sample	e Dup

QC Association Summary

Client: AECOM Project/Site: amoco

GC Semi VOA

Prep Batch: 40946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-3	AMOCO DB-5 (0-1)	Total/NA	Solid	8015NM Prep	
890-3573-6	AMOCO DB-5 (4-5)	Total/NA	Solid	8015NM Prep	
890-3573-7	AMOCO DB-3 (3-4)	Total/NA	Solid	8015NM Prep	
890-3573-8	AMOCO DB-3 (4-5)	Total/NA	Solid	8015NM Prep	
890-3573-32	AMOCO DB-6 (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-40946/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40946/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40946/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40965

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-3573-3	AMOCO DB-5 (0-1)	Total/NA	Solid	8015B NM	40946	
890-3573-6	AMOCO DB-5 (4-5)	Total/NA	Solid	8015B NM	40946	
890-3573-7	AMOCO DB-3 (3-4)	Total/NA	Solid	8015B NM	40946	
890-3573-8	AMOCO DB-3 (4-5)	Total/NA	Solid	8015B NM	40946	
890-3573-32	AMOCO DB-6 (0-1)	Total/NA	Solid	8015B NM	40946	
MB 880-40946/1-A	Method Blank	Total/NA	Solid	8015B NM	40946	
LCS 880-40946/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40946	
LCSD 880-40946/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40946	

Analysis Batch: 41384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-3	AMOCO DB-5 (0-1)	Total/NA	Solid	8015 NM	
890-3573-6	AMOCO DB-5 (4-5)	Total/NA	Solid	8015 NM	
890-3573-7	AMOCO DB-3 (3-4)	Total/NA	Solid	8015 NM	
890-3573-8	AMOCO DB-3 (4-5)	Total/NA	Solid	8015 NM	
890-3573-32	AMOCO DB-6 (0-1)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3573-3	AMOCO DB-5 (0-1)	Soluble	Solid	DI Leach	
890-3573-6	AMOCO DB-5 (4-5)	Soluble	Solid	DI Leach	
890-3573-7	AMOCO DB-3 (3-4)	Soluble	Solid	DI Leach	
890-3573-8	AMOCO DB-3 (4-5)	Soluble	Solid	DI Leach	
890-3573-14	AMOCO DB-2 (4-5)	Soluble	Solid	DI Leach	
890-3573-32	AMOCO DB-6 (0-1)	Soluble	Solid	DI Leach	
890-3573-40	AMOCO DB-1 (4-5)	Soluble	Solid	DI Leach	
890-3573-51	AMOCO DB-4 (0-1)	Soluble	Solid	DI Leach	
390-3573-52	AMOCO DB-4 (3-4)	Soluble	Solid	DI Leach	
MB 880-40728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3573-6 MS	AMOCO DB-5 (4-5)	Soluble	Solid	DI Leach	
890-3573-6 MSD	AMOCO DB-5 (4-5)	Soluble	Solid	DI Leach	

Method Lab Sample ID **Client Sample ID** Prep Type Matrix **Prep Batch** 890-3573-3 Soluble Solid 300.0 40728 AMOCO DB-5 (0-1) 890-3573-6 AMOCO DB-5 (4-5) Soluble Solid 300.0 40728

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Job ID: 890-3573-1 SDG: 60689116
Client: AECOM Project/Site: amoco

HPLC/IC (Continued)

Analysis Batch: 40962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-7	AMOCO DB-3 (3-4)	Soluble	Solid	300.0	40728
890-3573-8	AMOCO DB-3 (4-5)	Soluble	Solid	300.0	40728
890-3573-14	AMOCO DB-2 (4-5)	Soluble	Solid	300.0	40728
890-3573-32	AMOCO DB-6 (0-1)	Soluble	Solid	300.0	40728
890-3573-40	AMOCO DB-1 (4-5)	Soluble	Solid	300.0	40728
890-3573-51	AMOCO DB-4 (0-1)	Soluble	Solid	300.0	40728
890-3573-52	AMOCO DB-4 (3-4)	Soluble	Solid	300.0	40728
MB 880-40728/1-A	Method Blank	Soluble	Solid	300.0	40728
LCS 880-40728/2-A	Lab Control Sample	Soluble	Solid	300.0	40728
LCSD 880-40728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40728
890-3573-6 MS	AMOCO DB-5 (4-5)	Soluble	Solid	300.0	40728
890-3573-6 MSD	AMOCO DB-5 (4-5)	Soluble	Solid	300.0	40728

Leach Batch: 41544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-1	AMOCO DB-10 (0-1)	Soluble	Solid	DI Leach	
890-3573-2	AMOCO DB-10 (3-4)	Soluble	Solid	DI Leach	
890-3573-4	AMOCO DB-5 (2-3)	Soluble	Solid	DI Leach	
890-3573-5	AMOCO DB-5 (3-4)	Soluble	Solid	DI Leach	
890-3573-24	AMOCO DB-8 (0-1)	Soluble	Solid	DI Leach	
890-3573-25	AMOCO DB-8 (2-3)	Soluble	Solid	DI Leach	
890-3573-26	AMOCO DB-8 (3-4)	Soluble	Solid	DI Leach	
890-3573-33	AMOCO DB-6 (2-3)	Soluble	Solid	DI Leach	
890-3573-34	AMOCO DB-6 (3-4)	Soluble	Solid	DI Leach	
890-3573-41	AMOCO DB-1 (5-6)	Soluble	Solid	DI Leach	
890-3573-44	AMOCO DB-7 (0-1)	Soluble	Solid	DI Leach	
890-3573-45	AMOCO DB-7 (2-3)	Soluble	Solid	DI Leach	
890-3573-46	AMOCO DB-7 (3-4)	Soluble	Solid	DI Leach	
890-3573-47	AMOCO DB-7 (4-5)	Soluble	Solid	DI Leach	
MB 880-41544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3573-33 MS	AMOCO DB-6 (2-3)	Soluble	Solid	DI Leach	
890-3573-33 MSD	AMOCO DB-6 (2-3)	Soluble	Solid	DI Leach	

Analysis Batch: 41555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-1	AMOCO DB-10 (0-1)	Soluble	Solid	300.0	41544
890-3573-2	AMOCO DB-10 (3-4)	Soluble	Solid	300.0	41544
890-3573-4	AMOCO DB-5 (2-3)	Soluble	Solid	300.0	41544
890-3573-5	AMOCO DB-5 (3-4)	Soluble	Solid	300.0	41544
890-3573-24	AMOCO DB-8 (0-1)	Soluble	Solid	300.0	41544
890-3573-25	AMOCO DB-8 (2-3)	Soluble	Solid	300.0	41544
890-3573-26	AMOCO DB-8 (3-4)	Soluble	Solid	300.0	41544
890-3573-33	AMOCO DB-6 (2-3)	Soluble	Solid	300.0	41544
890-3573-34	AMOCO DB-6 (3-4)	Soluble	Solid	300.0	41544
890-3573-41	AMOCO DB-1 (5-6)	Soluble	Solid	300.0	41544
890-3573-44	AMOCO DB-7 (0-1)	Soluble	Solid	300.0	41544
890-3573-45	AMOCO DB-7 (2-3)	Soluble	Solid	300.0	41544
890-3573-46	AMOCO DB-7 (3-4)	Soluble	Solid	300.0	41544
890-3573-47	AMOCO DB-7 (4-5)	Soluble	Solid	300.0	41544

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Job ID: 890-3573-1 SDG: 60689116

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Client: AECOM Project/Site: amoco

HPLC/IC (Continued)

Analysis Batch: 41555 (Continued)

Lab Sample ID MB 880-41544/1-A	Client Sample ID Method Blank	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 41544
LCS 880-41544/2-A	Lab Control Sample	Soluble	Solid	300.0	41544
LCSD 880-41544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41544
890-3573-33 MS	AMOCO DB-6 (2-3)	Soluble	Solid	300.0	41544
890-3573-33 MSD	AMOCO DB-6 (2-3)	Soluble	Solid	300.0	41544

Leach Batch: 41923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-35	AMOCO DB-6 (4-5)	Soluble	Solid	DI Leach	
890-3573-42	AMOCO DB-1 (6-7)	Soluble	Solid	DI Leach	
890-3573-48	AMOCO DB-7 (5-6)	Soluble	Solid	DI Leach	
890-3573-53	AMOCO DB-4 (4-5)	Soluble	Solid	DI Leach	
890-3573-56	DUP 1	Soluble	Solid	DI Leach	
MB 880-41923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 42049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-35	AMOCO DB-6 (4-5)	Soluble	Solid	300.0	41923
890-3573-42	AMOCO DB-1 (6-7)	Soluble	Solid	300.0	41923
890-3573-48	AMOCO DB-7 (5-6)	Soluble	Solid	300.0	41923
890-3573-53	AMOCO DB-4 (4-5)	Soluble	Solid	300.0	41923
890-3573-56	DUP 1	Soluble	Solid	300.0	41923
MB 880-41923/1-A	Method Blank	Soluble	Solid	300.0	41923
LCS 880-41923/2-A	Lab Control Sample	Soluble	Solid	300.0	41923
LCSD 880-41923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41923

Leach Batch: 42706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-36	AMOCO DB-6 (5-6)	Soluble	Solid	DI Leach	
890-3573-43	AMOCO DB-1 (7-8)	Soluble	Solid	DI Leach	
890-3573-49	AMOCO DB-7 (6-7)	Soluble	Solid	DI Leach	
MB 880-42706/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42706/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42706/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 42917

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3573-36	AMOCO DB-6 (5-6)	Soluble	Solid	300.0	42706
890-3573-43	AMOCO DB-1 (7-8)	Soluble	Solid	300.0	42706
890-3573-49	AMOCO DB-7 (6-7)	Soluble	Solid	300.0	42706
MB 880-42706/1-A	Method Blank	Soluble	Solid	300.0	42706
LCS 880-42706/2-A	Lab Control Sample	Soluble	Solid	300.0	42706
LCSD 880-42706/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42706

Leach Batch: 43763

Lab Sample ID 890-3573-38	Client Sample ID AMOCO DB-6 (7-8)	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3573-50	AMOCO DB-7 (8-9)	Soluble	Solid	DI Leach	
MB 880-43763/1-A	Method Blank	Soluble	Solid	DI Leach	

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Job ID: 890-3573-1 SDG: 60689116

Client: AECOM Project/Site: amoco

HPLC/IC (Continued)

Leach Batch: 43763 (Continued)

Lab Sample ID LCS 880-43763/2-A LCSD 880-43763/3-A	Client Sample ID Lab Control Sample Lab Control Sample Dup	Prep Type Soluble Soluble	Matrix Solid Solid	DI Leach	Prep Batch
Analysis Batch: 4380	05				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

		· · · · · ·			
890-3573-38	AMOCO DB-6 (7-8)	Soluble	Solid	300.0	43763
890-3573-50	AMOCO DB-7 (8-9)	Soluble	Solid	300.0	43763
MB 880-43763/1-A	Method Blank	Soluble	Solid	300.0	43763
LCS 880-43763/2-A	Lab Control Sample	Soluble	Solid	300.0	43763
LCSD 880-43763/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43763
<u> </u>					

Leach Batch: 44148

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-3573-39	AMOCO DB-6 (8-9)	Soluble	Solid	DI Leach		
MB 880-44148/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		

Analysis Batch: 44156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3573-39	AMOCO DB-6 (8-9)	Soluble	Solid	300.0	44148
MB 880-44148/1-A	Method Blank	Soluble	Solid	300.0	44148
LCS 880-44148/2-A	Lab Control Sample	Soluble	Solid	300.0	44148
LCSD 880-44148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44148

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Job ID: 890-3573-1 SDG: 60689116

Job ID: 890-3573-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3573-1

Lab Sample ID: 890-3573-2

Project/Site: amoco Client Sample ID: AMOCO DB-10 (0-1)

Date Collected: 11/29/22 12	2:25
Date Received: 11/30/22 08	:00

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	41555	12/13/22 10:57	СН	EET MID

Client Sample ID: AMOCO DB-10 (3-4) Date Collected: 11/29/22 12:35 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	41555	12/13/22 11:04	СН	EET MID

Client Sample ID: AMOCO DB-5 (0-1) Date Collected: 11/29/22 12:45 Date Received: 11/30/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41384	12/08/22 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40946	12/03/22 11:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40965	12/04/22 00:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40962	12/04/22 23:22	СН	EET MID

Client Sample ID: AMOCO DB-5 (2-3) Date Collected: 11/29/22 12:50

Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 11:26	СН	EET MID

Client Sample ID: AMOCO DB-5 (3-4)

Date Collected: 11/29/22 12:55

Date Received:	11/30/22	08:00	
_			

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 11:33	СН	EET MID

Client Sample ID: AMOCO DB-5 (4-5) Date Collected: 11/29/22 13:00 Date Received: 11/30/22 08:00

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
F	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
1	Total/NA	Analysis	8015 NM		1			41384	12/08/22 15:01	SM	EET MID
1	Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40946	12/03/22 11:09	DM	EET MID
	Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40965	12/04/22 01:01	SM	EET MID

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Lab Sample ID: 890-3573-3 Matrix: Solid

Lab Sample ID: 890-3573-4

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3573-5

Lab Sample ID: 890-3573-6 Matrix: Solid

Job ID: 890-3573-1 SDG: 60689116

Lab Sample ID: 890-3573-6

Lab Sample ID: 890-3573-7

Project/Site: amoco Client Sample ID: AMOCO DB-5 (4-5)

Date Collected: 11/29/22 13:00 Date Received: 11/30/22 08:00

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40962	12/04/22 23:30	СН	EET MID

Client Sample ID: AMOCO DB-3 (3-4) Date Collected: 11/29/22 13:12 Date Received: 11/30/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41384	12/08/22 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40946	12/03/22 11:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40965	12/04/22 01:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40962	12/04/22 23:55	СН	EET MID

Client Sample ID: AMOCO DB-3 (4-5) Date Collected: 11/29/22 13:15 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41384	12/08/22 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40946	12/03/22 11:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40965	12/04/22 01:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40962	12/05/22 00:03	СН	EET MID

Client Sample ID: AMOCO DB-2 (4-5) Date Collected: 11/29/22 13:45 Date Received: 11/30/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40962	12/05/22 00:27	CH	EET MID

Client Sample ID: AMOCO DB-8 (0-1) Date Collected: 11/29/22 14:45 Date Received: 11/30/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 11:40	СН	EET MID

Lab Sample ID: 890-3573-8

Matrix: Solid

Lab Sample ID: 890-3573-14 Matrix: Solid

Lab Sample ID: 890-3573-24

Matrix: Solid

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: AECOM

Project/Site: amoco

Job ID: 890-3573-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3573-25

Lab Sample ID: 890-3573-26

Lab Sample ID: 890-3573-32

Client Sample ID: AMOCO DB-8 (2-3) Date Collected: 11/29/22 14:47 Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 11:47	СН	EET MID

Client Sample ID: AMOCO DB-8 (3-4) Date Collected: 11/29/22 14:50 Date Received: 11/30/22 08:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 11:55	СН	EET MID

Client Sample ID: AMOCO DB-6 (0-1) Date Collected: 11/29/22 15:10 Date Received: 11/30/22 08:00

Prep Type	Batch Type Analvsis	Batch 	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 41384	Prepared or Analyzed 12/08/22 15:01	Analyst	Lab EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	40946 40965	12/03/22 13:01 12/03/22 11:09 12/04/22 02:06	DM SM	EET MID
Soluble	Leach Analysis	DI Leach 300.0		5	5.03 g 50 mL	50 mL 50 mL	40728	11/30/22 15:59 12/05/22 00:35	SMC	EET MID

Client Sample ID: AMOCO DB-6 (2-3) Date Collected: 11/29/22 15:12

Date Received: 11/30/22 08:00

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 12:02	СН	EET MID

Client Sample ID: AMOCO DB-6 (3-4)

Date Collected: 11/29/22 15:14

Date Received: 11/30/	22 08:00
F	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 12:23	СН	EET MID

Client Sample ID: AMOCO DB-6 (4-5) Date Collected: 11/29/22 15:16 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/19/22 22:34	СН	EET MID

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1/18/2023 (Rev. 2)

Lab Sample ID: 890-3573-35

Lab Sample ID: 890-3573-33

Lab Sample ID: 890-3573-34

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: AECOM Project/Site: amoco

Lab Chronicle

Job ID: 890-3573-1
SDG: 60689116

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3573-36

Lab Sample ID: 890-3573-38

Lab Sample ID: 890-3573-39

Lab Sample ID: 890-3573-40

Lab Sample ID: 890-3573-41

Lab Sample ID: 890-3573-42

Client Sample ID: AMOCO DB-6 (5-6) Date Collected: 11/29/22 16:18 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	42706	12/29/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1			42917	12/30/22 09:31	СН	EET MID

Client Sample ID: AMOCO DB-6 (7-8) Date Collected: 11/29/22 15:22 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	43763	01/13/23 13:00	KS	EET MID
Soluble	Analysis	300.0		1			43805	01/13/23 14:06	СН	EET MID

Client Sample ID: AMOCO DB-6 (8-9) Date Collected: 11/29/22 15:24

Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	44148	01/17/23 17:00	KS	EET MID
Soluble	Analysis	300.0		1			44156	01/17/23 21:17	CH	EET MID

Client Sample ID: AMOCO DB-1 (4-5)

Date Collected: 11/29/22 15:32

Date Received: 11/30/22 08:00

Ргер Туре	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	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40962	12/05/22 00:43	СН	EET MID

Client Sample ID: AMOCO DB-1 (5-6) Date Collected: 11/29/22 15:34

Date Received: 11/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	41555	12/13/22 12:31	CH	EET MID

Client Sample ID: AMOCO DB-1 (6-7) Date Collected: 11/29/22 15:36 Date Received: 11/30/22 08:00

—	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 22:39	СН	EET MID

Eurofins Carlsbad

Client: AECOM

Project/Site: amoco

Lab Chronicle

Job ID: 890-3573-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3573-43

Lab Sample ID: 890-3573-44

Client Sample ID: AMOCO DB-1 (7-8) Date Collected: 11/29/22 15:38 Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Soluble	Leach	DI Leach	Kuli	Factor	5.04 g	50 mL	42706	12/29/22 13:19		EET MID
Soluble	Analysis	300.0		1	-		42917	12/30/22 09:36	СН	EET MID

Client Sample ID: AMOCO DB-7 (0-1) Date Collected: 11/29/22 15:45 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	41555	12/13/22 12:52	СН	EET MID

Client Sample ID: AMOCO DB-7 (2-3)

Date Collected: 11/29/22 15:47

Date Received: 11/30/22 08:00	Date	Receive	ed: 11/30/	22 08:00
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Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 13:00	СН	EET MID

Client Sample ID: AMOCO DB-7 (3-4)

Date Collected: 11/29/22 15:50

Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	41555	12/13/22 13:07	СН	EET MID

Client Sample ID: AMOCO DB-7 (4-5) Date Collected: 11/29/22 15:52

Date Received: 11/30/22 08:00

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	41544	12/09/22 18:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41555	12/13/22 13:14	CH	EET MID

Client Sample ID: AMOCO DB-7 (5-6) Date Collected: 11/29/22 15:55 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A	
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42049	12/19/22 22:52	CH	EET MID

Lab Sample ID: 890-3573-45 **Matrix: Solid**

Lab Sample ID: 890-3573-46 **Matrix: Solid**

Lab Sample ID: 890-3573-47

Matrix: Solid

Lab Sample ID: 890-3573-48 Matrix: Solid

Client: AECOM

Project/Site: amoco

Lab Chronicle

Job ID: 890-3573-1 SDG: 60689116

Lab Sample ID: 890-3573-51

Lab Sample ID: 890-3573-52

Lab Sample ID: 890-3573-53

Lab Sample ID: 890-3573-56

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample ID: AMOCO DB-7 (6-7	')
Date Collected: 11/29/22 15:57	
Date Received: 11/30/22 08:00	

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analvst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	42706	12/29/22 13:19		EET MID
Soluble	Analysis	300.0		10			42917	12/30/22 09:40	СН	EET MID

Client Sample ID: AMOCO DB-7 (8-9) Date Collected: 11/29/22 16:00 Date Received: 11/30/22 08:00

- -	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A	1
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	43763	01/13/23 13:00	KS	EET MID
Soluble	Analysis	300.0		1			43805	01/13/23 14:12	CH	EET MID

Client Sample ID: AMOCO DB-4 (0-1) Date Collected: 11/29/22 16:15

Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Ty	ре Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach		· ·	4.98 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analy	sis 300.0		20	50 mL	50 mL	40962	12/05/22 00:52	СН	EET MID

Client Sample ID: AMOCO DB-4 (3-4)

Date Collected: 11/29/22 16:20

Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	40728	11/30/22 15:59	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40962	12/05/22 01:00	СН	EET MID

Client Sample ID: AMOCO DB-4 (4-5)

Date Collected: 11/29/22 16:23 Date Received: 11/30/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42049	12/19/22 22:57	СН	EET MID

Client Sample ID: DUP 1 Date Collected: 11/29/22 00:00 Date Received: 11/30/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	41923	12/15/22 14:14	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	42049	12/19/22 23:01	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Project/Site: amoco

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Job ID: 890-3573-1
SDG: 60689116

Laboratory: Eurofins Midland

Authority	Program	Identification Number	Expiration Date

Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Eurofins Carlsbad

Method Summary

Client: AECOM Project/Site: amoco Job ID: 890-3573-1 SDG: 60689116

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Method	Method Description	Protocol	Laboratory
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	MCAWW	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: AECOM Project/Site: amoco

Page	156	of 259

Job ID: 890-3573-1 SDG: 60689116

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3573-1	AMOCO DB-10 (0-1)	Solid	11/29/22 12:25	11/30/22 08:00	0 - 1
890-3573-2	AMOCO DB-10 (3-4)	Solid	11/29/22 12:35	11/30/22 08:00	3 - 3
890-3573-3	AMOCO DB-5 (0-1)	Solid	11/29/22 12:45	11/30/22 08:00	0 - 0
890-3573-4	AMOCO DB-5 (2-3)	Solid	11/29/22 12:50	11/30/22 08:00	2 - 2
890-3573-5	AMOCO DB-5 (3-4)	Solid	11/29/22 12:55	11/30/22 08:00	3 - 3
390-3573-6	AMOCO DB-5 (4-5)	Solid	11/29/22 13:00	11/30/22 08:00	4 - 4
390-3573-7	AMOCO DB-3 (3-4)	Solid	11/29/22 13:12	11/30/22 08:00	3 - 3
890-3573-8	AMOCO DB-3 (4-5)	Solid	11/29/22 13:15	11/30/22 08:00	4 - 5
390-3573-14	AMOCO DB-2 (4-5)	Solid	11/29/22 13:45	11/30/22 08:00	4 - 5
890-3573-24	AMOCO DB-8 (0-1)	Solid	11/29/22 14:45	11/30/22 08:00	0 - 1
890-3573-25	AMOCO DB-8 (2-3)	Solid	11/29/22 14:47	11/30/22 08:00	2 - 3
890-3573-26	AMOCO DB-8 (3-4)	Solid	11/29/22 14:50	11/30/22 08:00	3 - 4
890-3573-32	AMOCO DB-6 (0-1)	Solid	11/29/22 15:10	11/30/22 08:00	0 - 1
890-3573-33	AMOCO DB-6 (2-3)	Solid	11/29/22 15:12	11/30/22 08:00	2 - 3
390-3573-34	AMOCO DB-6 (3-4)	Solid	11/29/22 15:14	11/30/22 08:00	3 - 4
390-3573-35	AMOCO DB-6 (4-5)	Solid	11/29/22 15:16	11/30/22 08:00	4 - 5
890-3573-36	AMOCO DB-6 (5-6)	Solid	11/29/22 16:18	11/30/22 08:00	5 - 6
390-3573-38	AMOCO DB-6 (7-8)	Solid	11/29/22 15:22	11/30/22 08:00	7 - 8
390-3573-39	AMOCO DB-6 (8-9)	Solid	11/29/22 15:24	11/30/22 08:00	8 - 4
390-3573-40	AMOCO DB-1 (4-5)	Solid	11/29/22 15:32	11/30/22 08:00	4 - 5
390-3573-41	AMOCO DB-1 (5-6)	Solid	11/29/22 15:34	11/30/22 08:00	5 - 6
390-3573-42	AMOCO DB-1 (6-7)	Solid	11/29/22 15:36	11/30/22 08:00	6 - 7
390-3573-43	AMOCO DB-1 (7-8)	Solid	11/29/22 15:38	11/30/22 08:00	7 - 8
390-3573-44	AMOCO DB-7 (0-1)	Solid	11/29/22 15:45	11/30/22 08:00	0 - 1
390-3573-45	AMOCO DB-7 (2-3)	Solid	11/29/22 15:47	11/30/22 08:00	2 - 3
390-3573-46	AMOCO DB-7 (3-4)	Solid	11/29/22 15:50	11/30/22 08:00	3 - 4
890-3573-47	AMOCO DB-7 (4-5)	Solid	11/29/22 15:52	11/30/22 08:00	4 - 5
390-3573-48	AMOCO DB-7 (5-6)	Solid	11/29/22 15:55	11/30/22 08:00	5 - 6
390-3573-49	AMOCO DB-7 (6-7)	Solid	11/29/22 15:57	11/30/22 08:00	6 - 7
390-3573-50	AMOCO DB-7 (8-9)	Solid	11/29/22 16:00	11/30/22 08:00	7 - 8
390-3573-51	AMOCO DB-4 (0-1)	Solid	11/29/22 16:15	11/30/22 08:00	0 - 1
890-3573-52	AMOCO DB-4 (3-4)	Solid	11/29/22 16:20	11/30/22 08:00	3 - 4
890-3573-53	AMOCO DB-4 (4-5)	Solid	11/29/22 16:23	11/30/22 08:00	4 - 5
890-3573-56	DUP 1	Solid	11/29/22 00:00	11/30/22 08:00	

Login Sample Receipt Checklist

Client: AECOM

Login Number: 3573 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-3573-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 5/8/2024 1:03:13 PM

SDG Number: 60689116

List Source: Eurofins Midland

List Creation: 11/30/22 04:51 PM

Login Sample Receipt Checklist

Client: AECOM

<6mm (1/4").

Login Number: 3573 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 890-3573-1 SDG Number: 60689116

Login Sample Receipt Checklist

Client: AECOM

Login Number: 3573 List Number: 3 Creator: Rodriguez, Leticia

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

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

List Source: Eurofins Midland List Creation: 12/13/22 04:37 PM

Job Number: 890-3573-1 SDG Number: 60689116

List Source: Eurofins Midland

List Creation: 12/20/22 11:02 AM

Login Sample Receipt Checklist

Client: AECOM

<6mm (1/4").

Login Number: 3573 List Number: 4 Creator: Rodriguez, Leticia

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

Received by OCD: 4/30/2024 7:58:36 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Bradley Wynne AECOM 13355 Noel Road Suite 400 Dallas, Texas 75240 Generated 2/14/2023 9:13:13 AM

JOB DESCRIPTION

Amoco CTB SDG NUMBER 60689116

JOB NUMBER

890-4081-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Authorized for release by Sylvia Garza, Project Manager Sylvia.Garza@et.eurofinsus.com (832)544-2004 Generated 2/14/2023 9:13:13 AM

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: 60689116

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CFL

CFU

Client: AECO Project/Site: A		Job ID: 890-4081-1 SDG: 60689116	2
Qualifiers			3
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		5
Glossary			6
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		

CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) D::..+: DL, F

Contains Free Liquid

Colony Forming Unit

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

MDL Minimum Level (Dioxin) ML Most Probable Number MPN

MQL Method Quantitation Limit Not Calculated NC

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)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Released to Imaging: 5/8/2024 1:03:13 PM

5

Job ID: 890-4081-1 SDG: 60689116

Job ID: 890-4081-1

Project/Site: Amoco CTB

Client: AECOM

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4081-1

Receipt

The samples were received on 2/9/2023 3:40 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DB-12 (0-1') (890-4081-1), DB-12 (2-3') (890-4081-2), DB-11 (6-8') (890-4081-3), DB-11 (8-10') (890-4081-4), DB-11 (10-12') (890-4081-5), DB-15 (0-1') (890-4081-6), DB-15 (2-3') (890-4081-7), DB-13 (0-1') (890-4081-8), DB-13 (2-3') (890-4081-9), DB-16 (0-1') (890-4081-10), DB-16 (2-3') (890-4081-11), DB-14 (0-1') (890-4081-12), DB-14 (2-3') (890-4081-13), DB-17 (0-1') (890-4081-14), DB-17 (2-3') (890-4081-15) and DUP-01 (890-4081-16).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46142 and 880-46142 and analytical batch 880-46175 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

		Client	Sample Re	sults				4004
Client: AECOM Project/Site: Amoco CTB							Job ID: 890 SDG: 6	
Client Sample ID: DB-12 (0-1')						Lab Sa	mple ID: 890-	4081-
Date Collected: 02/08/23 15:27							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 0 - 1								
Method: EPA 300.0 - Anions, Ion Chr Analyte		o <mark>hy - Soluble</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	4470		50.0	mg/Kg			02/13/23 23:07	1
Client Sample ID: DB-12 (2-3')						l ah Sa	mple ID: 890-	4081-
Date Collected: 02/08/23 15:28								ix: Soli
Date Received: 02/09/23 15:20							Wat	x. 301
Sample Depth: 2 - 3								
Method: EPA 300.0 - Anions, Ion Chr Analyte		hy - Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	947		4.98			riepaieu	02/13/23 23:21	
L	547		1.00					
Client Sample ID: DB-11 (6-8')						Lab Sa	mple ID: 890-	4081-
Date Collected: 02/08/23 16:49							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 6 - 8								
Method: EPA 300.0 - Anions, Ion Chr	omatograr	hy - Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	203		4.95	mg/Kg			02/13/23 23:26	
Client Sample ID: DB-11 (8-10')						l ah Sa	mple ID: 890-	1021_
Date Collected: 02/08/23 16:50						Lab Ou		ix: Solie
Date Received: 02/09/23 15:40							Wat	x. 001
Sample Depth: 8 - 10								
Method: EPA 300.0 - Anions, Ion Chr					_			
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	267		4.96	mg/Kg			02/13/23 23:31	
Client Sample ID: DB-11 (10-12'))					Lab Sa	mple ID: 890-	4081-
Date Collected: 02/08/23 16:51							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 10 - 12								
Method: EPA 300.0 - Anions, Ion Chr	omatograr	hy - Soluble						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	454		4.97	mg/Kg			02/13/23 23:35	
Client Sample ID: DB-15 (0-1')						l ah Sa	mple ID: 890-	1081_
Date Collected: 02/09/23 09:15								x: Soli
Date Received: 02/09/23 15:40							wat	A. 001
Sample Depth: 0 - 1								
_		hu Ostati						
Method: EPA 300.0 - Anions, Ion Chr Analyte		hy - Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	4550		50.0	mg/Kg		ricpareu	02/13/23 23:49	1
	4000		00.0				02,10,20 20.70	'

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		Client	Sample Res	sults			=	
Client: AECOM							Job ID: 890	
Project/Site: Amoco CTB							SDG: 6	068911
Client Sample ID: DB-15 (2-3')						Lab Sa	mple ID: 890-	4081-
Date Collected: 02/09/23 09:16							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 2 - 3								
Method: EPA 300.0 - Anions, Ion Chro	omatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	436		4.98	mg/Kg			02/13/23 23:54	
Client Sample ID: DB-13 (0-1')						Lab Sa	mple ID: 890-	4081-
Date Collected: 02/09/23 10:17								ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 0 - 1								
Method: EPA 300.0 - Anions, Ion Chro	omatograr	hy - Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3160		25.0	mg/Kg			02/13/23 23:59	
- Oliant Cample ID: DD 42 (2 21)						Lah Ca		4004
Client Sample ID: DB-13 (2-3')						Lab Sa	mple ID: 890-	
Date Collected: 02/09/23 10:18							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 2 - 3								
Method: EPA 300.0 - Anions, Ion Chro	omatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	392		5.01	mg/Kg			02/14/23 00:03	
Client Sample ID: DB-16 (0-1')						Lab San	nple ID: 890-4	081-1
Date Collected: 02/09/23 10:42							-	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 0 - 1								
Method: EPA 300.0 - Anions, Ion Chro					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2450		24.9	mg/Kg			02/14/23 00:08	
Client Sample ID: DB-16 (2-3')						Lab San	nple ID: 890-4	081-1
Date Collected: 02/09/23 10:43							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 2 - 3								
Mothod: EBA 200.0 Aniona Ion Chr	matagrar	why Soluble						
Method: EPA 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	583		4.95	mg/Kg		riepaieu	02/14/23 00:13	
_								
Client Sample ID: DB-14 (0-1')						Lab San	nple ID: 890-4	
Date Collected: 02/09/23 11:35							Matr	ix: Soli
Date Received: 02/09/23 15:40								
Sample Depth: 0 - 1								
 Method: EPA 300.0 - Anions, Ion Chro	omatograr	hv - Soluble						
Method. El A 000.0 - Amons, ion onio	Sinatograp							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

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		Client S	ample Res	sults				
Client: AECOM			-				Job ID: 890	-4081-1
Project/Site: Amoco CTB							SDG: 60	0689116
Client Sample ID: DB-14 (2-3')						Lab Sam	nple ID: 890-4	081-13
Date Collected: 02/09/23 11:36							Matri	x: Solic
Date Received: 02/09/23 15:40								
Sample Depth: 2 - 3								
Method: EPA 300.0 - Anions, Ion Chro	matograp	hv - Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2330		24.8	mg/Kg			02/14/23 00:31	
Client Sample ID: DB-17 (0-1')						Lab Sam	nple ID: 890-4	081-14
Date Collected: 02/09/23 11:58							Matri	x: Solie
Date Received: 02/09/23 15:40								
Sample Depth: 0 - 1								
Method: EPA 300.0 - Anions, Ion Chro	•••	-	51	1114		Durant	A	D!! E-
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	190		4.97	mg/Kg			02/14/23 00:45	
	190		4.97	mg/Kg		Lab Sam	02/14/23 00:45	
Client Sample ID: DB-17 (2-3')	190		4.97	mg/Kg		Lab San	nple ID: 890-4	081-1
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59	190		4.97	mg/Kg		Lab Sam	nple ID: 890-4	081-1
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3	190		4.97	mg/Kg		Lab Sam	nple ID: 890-4	081-15
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3		hv - Soluble	4.97	mg/Kg		Lab Sam	nple ID: 890-4	081-1
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40	omatograp	hy - Soluble Qualifier	4.97 RL	mg/Kg	D	Lab San	nple ID: 890-4	081-15 x: Solic
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro	omatograp	-			<u>D</u>		nple ID: 890-4 Matri	081-1 x: Solic
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro Analyte Chloride	omatograp Result	-	RL	Unit	<u> </u>	Prepared	nple ID: 890-4 Matri Analyzed	081-1 x: Solid Dil Fa
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro Analyte Chloride Client Sample ID: DUP-01	omatograp Result	-	RL	Unit	<u>D</u> .	Prepared	Analyzed 02/14/23 00:50	081-1 x: Solic
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro Analyte Chloride Client Sample ID: DUP-01 Date Collected: 02/09/23 00:00	omatograp Result	-	RL	Unit	<u> </u>	Prepared	Analyzed 02/14/23 00:50	081-1 x: Solid
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro Analyte Chloride Client Sample ID: DUP-01 Date Collected: 02/09/23 00:00 Date Received: 02/09/23 15:40	ematograp Result 839	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 02/14/23 00:50	081-15 x: Solic Dil Fac 081-16
Client Sample ID: DB-17 (2-3') Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40 Sample Depth: 2 - 3 Method: EPA 300.0 - Anions, Ion Chro Analyte	omatograp Result 839 omatograp	Qualifier	RL	Unit	D	Prepared	Analyzed 02/14/23 00:50	x: Solic

Client: AECOM

Project/Site: Amoco CTB

5 6 7

QC Sample Results

Job ID: 890-4081-1
SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography

									Client S	ample ID: I	Method	Blanl
Matrix: Solid										Prep	Type: S	olubl
Analysis Batch: 46175												
		MB MB										
Analyte	R	esult Qualifier		RL	Unit		D	P	repared	Analyz	ed	Dil Fa
Chloride	<	<5.00 U		5.00	mg/K	g				02/13/23 2	22:53	
Lab Sample ID: LCS 880-46142/2-/	4						Clie	ent	Sample	ID: Lab Co	ontrol S	ampl
Matrix: Solid							-				Type: S	
Analysis Batch: 46175												
			Spike		LCS			_		%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Chloride			250	242.1		mg/Kg			97	90 - 110		
Lab Sample ID: LCSD 880-46142/3	-A					CI	ient S	am	ple ID: I	Lab Contro	I Sampl	le Du
Matrix: Solid										Prep	Type: S	olub
Analysis Batch: 46175												
			Spike	LCSD	LCSD					%Rec		RP
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Chloride			250	246.6		mg/Kg		_	99	90 _ 110	2	2
Lab Sample ID: 890-4081-1 MS									Client	t Sample ID): DB-12	2 (0-1
Matrix: Solid											Type: S	
Analysis Batch: 46175												
Analysis Batch: 46175	Sample	Sample	Spike	MS	MS					%Rec		
-		Sample Qualifier	Spike Added		MS Qualifier	Unit		D	%Rec	%Rec Limits		
Analysis Batch: 46175 Analyte Chloride		Qualifier	-		Qualifier	Unit mg/Kg		D	%Rec			
Analyte Chloride	Result	Qualifier	Added	Result	Qualifier			<u>D</u>	84	Limits 90 - 110		
Analyte Chloride Lab Sample ID: 890-4081-1 MSD	Result	Qualifier	Added	Result	Qualifier			<u>D</u>	84	Limits 90 - 110 t Sample ID		
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid	Result	Qualifier	Added	Result	Qualifier			<u>D</u>	84	Limits 90 - 110 t Sample ID): DB-12 Type: S	
Analyte Chloride Lab Sample ID: 890-4081-1 MSD	Result 4470	Qualifier F1	Added	Result 6569	Qualifier F1			D	84	Limits 90 - 110 t Sample ID Prep		olubl
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175	Result 4470 Sample	Qualifier F1	Added 2500 -	Result 6569 MSD	Qualifier F1 MSD	mg/Kg			84 Client	Limits 90 - 110 t Sample ID Prep 7 %Rec	Type: S	olubl RP
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid	Result 4470 Sample	Qualifier F1 Sample Qualifier	Added	Result 6569 MSD	Qualifier F1 MSD Qualifier			D	84	Limits 90 - 110 t Sample ID Prep		olubl RP Lim
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride	Result 4470 Sample Result	Qualifier F1 Sample Qualifier	Added 2500 Spike Added	Result 6569 MSD Result	Qualifier F1 MSD Qualifier	mg/Kg			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110	Type: So RPD	olubi RP Lim
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS	Result 4470 Sample Result	Qualifier F1 Sample Qualifier	Added 2500 Spike Added	Result 6569 MSD Result	Qualifier F1 MSD Qualifier	mg/Kg			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID	RPD 0 0: DB-16 0	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid	Result 4470 Sample Result	Qualifier F1 Sample Qualifier	Added 2500 Spike Added	Result 6569 MSD Result	Qualifier F1 MSD Qualifier	mg/Kg			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID	Type: So RPD	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS	Result 4470 Sample Result 4470	Qualifier F1 Sample Qualifier F1	Added 2500 Spike Added 2500	Result 6569 MSD Result 6560	Qualifier F1 MSD Qualifier F1	mg/Kg			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep	RPD 0 0: DB-16 0	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid	Result 4470 Sample Result 4470 Sample	Qualifier F1 Sample Qualifier F1 Sample	Added 2500 Spike Added 2500 Spike	Result 6569 MSD Result 6560	Qualifier F1 MSD Qualifier F1 MS	mg/Kg			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID	RPD 0 0: DB-16 0	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid	Result 4470 Sample Result 4470 Sample Result	Qualifier F1 Sample F1 Sample Qualifier	Added 2500 Spike Added 2500 Spike Added	Result 6569 MSD Result 6560 MS Result	Qualifier F1 MSD Qualifier F1	Unit Unit			84 Client %Rec 83	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep	RPD 0 0: DB-16 0	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid Analysis Batch: 46175	Result 4470 Sample Result 4470 Sample	Qualifier F1 Sample F1 Sample Qualifier	Added 2500 Spike Added 2500 Spike	Result 6569 MSD Result 6560	Qualifier F1 MSD Qualifier F1 MS	Unit mg/Kg		D	84 Client %Rec 83 Client	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep %Rec	RPD 0 0: DB-16 0	olubl RP Lim 2 5 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid Analysis Batch: 46175 Analyte	Result 4470 Sample Result 4470 Sample Result	Qualifier F1 Sample F1 Sample Qualifier	Added 2500 Spike Added 2500 Spike Added	Result 6569 MSD Result 6560 MS Result	Qualifier F1 MSD Qualifier F1 MS	Unit Unit		D	84 Client %Rec 83 Client %Rec 90	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep %Rec Limits	Type: S 	olubi RP
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MSD Matrix: Solid	Result 4470 Sample Result 4470 Sample Result	Qualifier F1 Sample F1 Sample Qualifier	Added 2500 Spike Added 2500 Spike Added	Result 6569 MSD Result 6560 MS Result	Qualifier F1 MSD Qualifier F1 MS	Unit Unit		D	84 Client %Rec 83 Client %Rec 90	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID %Rec Limits 90 - 110 t Sample ID	Type: S 	olubl RP 2 6 (2-3 olubl 6 (2-3
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MSD	Result 4470 Sample Result 4470 Sample Result 583	Qualifier	Added 2500 Spike Added 2500 Spike Added 248	Result 6569 MSD Result 6560 MS Result 805.2	Qualifier F1 MSD Qualifier F1 MS Qualifier	Unit Unit		D	84 Client %Rec 83 Client %Rec 90	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID Prep 7	RPD 0 0: DB-16 Type: S	Olubi RPI Lim 2 6 (2-3) olubi 5 (2-3) olubi
Analyte Chloride Lab Sample ID: 890-4081-1 MSD Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MS Matrix: Solid Analysis Batch: 46175 Analyte Chloride Lab Sample ID: 890-4081-11 MSD Matrix: Solid	Result 4470 Sample Result 4470 Sample Result 583	Qualifier F1 Sample F1 Sample Qualifier	Added 2500 Spike Added 2500 Spike Added	Result 6569 MSD Result 6560 MS Result 805.2	Qualifier F1 MSD Qualifier F1 MS	Unit Unit		D	84 Client %Rec 83 Client %Rec 90	Limits 90 - 110 t Sample ID Prep %Rec Limits 90 - 110 t Sample ID %Rec Limits 90 - 110 t Sample ID	RPD 0 0: DB-16 Type: S	olubl RPI 2 6 (2-3 0 olubl 0 olubl

Client: AECOM Project/Site: Amoco CTB

Leach Batch: 46142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4081-1	DB-12 (0-1')	Soluble	Solid	DI Leach	
890-4081-2	DB-12 (2-3')	Soluble	Solid	DI Leach	
890-4081-3	DB-11 (6-8')	Soluble	Solid	DI Leach	
890-4081-4	DB-11 (8-10')	Soluble	Solid	DI Leach	
890-4081-5	DB-11 (10-12')	Soluble	Solid	DI Leach	
890-4081-6	DB-15 (0-1')	Soluble	Solid	DI Leach	
890-4081-7	DB-15 (2-3')	Soluble	Solid	DI Leach	
890-4081-8	DB-13 (0-1')	Soluble	Solid	DI Leach	
890-4081-9	DB-13 (2-3')	Soluble	Solid	DI Leach	
890-4081-10	DB-16 (0-1')	Soluble	Solid	DI Leach	
890-4081-11	DB-16 (2-3')	Soluble	Solid	DI Leach	
890-4081-12	DB-14 (0-1')	Soluble	Solid	DI Leach	
890-4081-13	DB-14 (2-3')	Soluble	Solid	DI Leach	
890-4081-14	DB-17 (0-1')	Soluble	Solid	DI Leach	
890-4081-15	DB-17 (2-3')	Soluble	Solid	DI Leach	
890-4081-16	DUP-01	Soluble	Solid	DI Leach	
MB 880-46142/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46142/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46142/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4081-1 MS	DB-12 (0-1')	Soluble	Solid	DI Leach	
890-4081-1 MSD	DB-12 (0-1')	Soluble	Solid	DI Leach	
890-4081-11 MS	DB-16 (2-3')	Soluble	Solid	DI Leach	
890-4081-11 MSD	DB-16 (2-3')	Soluble	Solid	DI Leach	

Analysis Batch: 46175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4081-1	DB-12 (0-1')	Soluble	Solid	300.0	46142
890-4081-2	DB-12 (2-3')	Soluble	Solid	300.0	46142
890-4081-3	DB-11 (6-8')	Soluble	Solid	300.0	46142
890-4081-4	DB-11 (8-10')	Soluble	Solid	300.0	46142
890-4081-5	DB-11 (10-12')	Soluble	Solid	300.0	46142
890-4081-6	DB-15 (0-1')	Soluble	Solid	300.0	46142
890-4081-7	DB-15 (2-3')	Soluble	Solid	300.0	46142
890-4081-8	DB-13 (0-1')	Soluble	Solid	300.0	46142
890-4081-9	DB-13 (2-3')	Soluble	Solid	300.0	46142
890-4081-10	DB-16 (0-1')	Soluble	Solid	300.0	46142
890-4081-11	DB-16 (2-3')	Soluble	Solid	300.0	46142
890-4081-12	DB-14 (0-1')	Soluble	Solid	300.0	46142
890-4081-13	DB-14 (2-3')	Soluble	Solid	300.0	46142
890-4081-14	DB-17 (0-1')	Soluble	Solid	300.0	46142
890-4081-15	DB-17 (2-3')	Soluble	Solid	300.0	46142
890-4081-16	DUP-01	Soluble	Solid	300.0	46142
MB 880-46142/1-A	Method Blank	Soluble	Solid	300.0	46142
LCS 880-46142/2-A	Lab Control Sample	Soluble	Solid	300.0	46142
LCSD 880-46142/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46142
890-4081-1 MS	DB-12 (0-1')	Soluble	Solid	300.0	46142
890-4081-1 MSD	DB-12 (0-1')	Soluble	Solid	300.0	46142
890-4081-11 MS	DB-16 (2-3')	Soluble	Solid	300.0	46142
890-4081-11 MSD	DB-16 (2-3')	Soluble	Solid	300.0	46142

Page 170 of 259

Job ID: 890-4081-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-4081-1
SDG: 60689116

Lab Sample ID: 890-4081-1

Lab Sample ID: 890-4081-4

Lab Sample ID: 890-4081-5

Lab Sample ID: 890-4081-6

Project/Site: Amoco CTB

Client: AECOM

Client Sample ID: DB-12 (0-1') Date Collected: 02/08/23 15:27

Date	Received:	02/09/23	15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		10			46175	02/13/23 23:07	СН	EET MID

Client Sample ID: DB-12 (2-3') Date Collected: 02/08/23 15:28 Date Received: 02/09/23 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/13/23 23:21	СН	EET MID

Client Sample ID: DB-11 (6-8')

Date Collected: 02/08/23 16:49

Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/13/23 23:26	СН	EET MID

Client Sample ID: DB-11 (8-10')

Date Collected: 02/08/23 16:50

Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/13/23 23:31	СН	EET MID

Client Sample ID: DB-11 (10-12')

Date Collected: 02/08/23 16:51

Date Received: 02/09/23 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/13/23 23:35	СН	EET MID

Client Sample ID: DB-15 (0-1') Date Collected: 02/09/23 09:15 Date Received: 02/09/23 15:40

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		10			46175	02/13/23 23:49	СН	EET MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-4081-1
SDG: 60689116

Lab Sample ID: 890-4081-7

Lab Sample ID: 890-4081-8

Lab Sample ID: 890-4081-9

Lab Sample ID: 890-4081-10

Lab Sample ID: 890-4081-11

Lab Sample ID: 890-4081-12

Project/Site: Amoco CTB

Client: AECOM

Client Sample ID: DB-15 (2-3') Date Collected: 02/09/23 09:16

Date Received: 02/09/23 15:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/13/23 23:54	СН	EET MID

Client Sample ID: DB-13 (0-1') Date Collected: 02/09/23 10:17 Date Received: 02/09/23 15:40

ſ	-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			5.01 g	50 mL	46142	02/13/23 12:35	KS	EET MID
	Soluble	Analysis	300.0		5			46175	02/13/23 23:59	СН	EET MID

Client Sample ID: DB-13 (2-3')

Date Collected: 02/09/23 10:18

Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/14/23 00:03	СН	EET MID

Client Sample ID: DB-16 (0-1')

Date Collected: 02/09/23 10:42

Date Received: 02/09/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		5			46175	02/14/23 00:08	СН	EET MID

Client Sample ID: DB-16 (2-3')

Date Collected: 02/09/23 10:43 Date Received: 02/09/23 15:40

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/14/23 00:13	СН	EET MID

Client Sample ID: DB-14 (0-1') Date Collected: 02/09/23 11:35 Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/14/23 00:26	СН	EET MID

Lab Chronicle

Job ID: 890-4081-1
SDG: 60689116

Client Sample ID: DB-14 (2-3')

Client: AECOM

Project/Site: Amoco CTB

Date Collected: 02/09/23 11:36	
Date Received: 02/09/23 15:40	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		5			46175	02/14/23 00:31	СН	EET MID

Client Sample ID: DB-17 (0-1') Date Collected: 02/09/23 11:58 Date Received: 02/09/23 15:40

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/14/23 00:45	СН	EET MID

Client Sample ID: DB-17 (2-3')

Lab Sample ID: 890-4081-15 Matrix: Solid

Lab Sample ID: 890-4081-16

Lab Sample ID: 890-4081-14

Date Collected: 02/09/23 11:59 Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		1			46175	02/14/23 00:50	СН	EET MID

Client Sample ID: DUP-01

Date Collected: 02/09/23 00:00

Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46142	02/13/23 12:35	KS	EET MID
Soluble	Analysis	300.0		5			46175	02/14/23 00:54	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4081-13 Matrix: Solid

Accreditation/Certification Summary

	Accreditation/0	Certification Summary			
Client: AECOM Project/Site: Amoco CTB				Job ID: 890-4081-1 SDG: 60689116	2
Laboratory: Eurofins Midl					
The accreditations/certifications listed be	elow are applicable to this report.				
Authority	Program	Identification Number	Expiration Date	_	
Texas	NELAP	T104704400-22-25	06-30-23		5
					8
					9
					10
					13

Method Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4081-1 SDG: 60689116

Method	Method Description	Protocol	Laboratory	_
300.0	Anions, Ion Chromatography	EPA	EET MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	
Protocol Re	eferences:			5
ASTM =	ASTM International			
EPA = L	IS Environmental Protection Agency			0
Laboratory	References:			
EET MI	D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
				8
				9

Protocol References:

Laboratory References:

Eurofins Carlsbad

Sample Summary

Client: AECOM Project/Site: Amoco CTB

Job ID: 890-4081-1 SDG: 60689116

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4081-1	DB-12 (0-1')	Solid	02/08/23 15:27	02/09/23 15:40	0 - 1	
890-4081-2	DB-12 (2-3')	Solid	02/08/23 15:28	02/09/23 15:40	2 - 3	
890-4081-3	DB-11 (6-8')	Solid	02/08/23 16:49	02/09/23 15:40	6 - 8	
890-4081-4	DB-11 (8-10')	Solid	02/08/23 16:50	02/09/23 15:40	8 - 10	
890-4081-5	DB-11 (10-12')	Solid	02/08/23 16:51	02/09/23 15:40	10 - 12	
890-4081-6	DB-15 (0-1')	Solid	02/09/23 09:15	02/09/23 15:40	0 - 1	
890-4081-7	DB-15 (2-3')	Solid	02/09/23 09:16	02/09/23 15:40	2 - 3	
890-4081-8	DB-13 (0-1')	Solid	02/09/23 10:17	02/09/23 15:40	0 - 1	
890-4081-9	DB-13 (2-3')	Solid	02/09/23 10:18	02/09/23 15:40	2 - 3	
890-4081-10	DB-16 (0-1')	Solid	02/09/23 10:42	02/09/23 15:40	0 - 1	
890-4081-11	DB-16 (2-3')	Solid	02/09/23 10:43	02/09/23 15:40	2 - 3	
890-4081-12	DB-14 (0-1')	Solid	02/09/23 11:35	02/09/23 15:40	0 - 1	
890-4081-13	DB-14 (2-3')	Solid	02/09/23 11:36	02/09/23 15:40	2 - 3	
890-4081-14	DB-17 (0-1')	Solid	02/09/23 11:58	02/09/23 15:40	0 - 1	
890-4081-15	DB-17 (2-3')	Solid	02/09/23 11:59	02/09/23 15:40	2 - 3	
890-4081-16	DUP-01	Solid	02/09/23 00:00	02/09/23 15:40		

Eurofins Carlsbad 2/14/2023

	1 Xenco	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs: NM (575) 392-7550 Carlshad NM (575) 988-3190	, TX (806) 794-1296		•
		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	I, NM (575) 988-3199	www.xenco.com	Page 1 of 2
Project Manager: RRAD	AD WYNNE	BIII to: (if different)		Work Order Comments	Iments
	AELOM	Company Name:	P	Program: UST/PST PRP Brown	Brownfields RRC Superfund
	13355 NOEL RD. STE. 400		S	State of Project: NEW MEXICO	
e ZIP:	75240	City, State ZIP:	B	Reporting: Level II Level III PST/UST	
	11-18	bradley . wy me @	aecon.com	Deliverables: EDD ADaPT	Other:
Project Name: An	TB	Turn Around	ANALYSIS REQUEST		Preservative Codes
ver:	89116 NRout	Rush Code Cool		-	None: NO DI Water: H ₂ O
Lovi	~ Eddy County NM Due Date:				Cool: Cool MeOH: Me
er's Name: 3.	J. Lovely	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO 3: HN H, SO a: H 3 NaOH: Na
SAMPLE RECEIPT	Temp Blank: Wes No WetLce:	_		T	
tact:	Ves No AVA Correction Factor:	Param		7 7	NaHSO 4: NABIS Na ₂ S ₂ O ₃ : NaSO 3
Sample Custody Seals: Total Containers:	Yes No N/A Temperature Reading: Corrected Temperature:	c e O e Coric	890-4081 Chain of Ci	of Custody	Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix Date Time Sampled Sampled	Depth Grab/ # of L			Sample Comments
DB-12 (0-1')	5.:1 2/8/23 15:27	0-11 G 1 X			
NB-12 (2-3')	50:1 2/8/23	2-3			
	5011 2	9-10/ G 1 X			
12-11 (10-12)	·) S.: 1 2/8/23	10-12'			
-15	50:1 2/9/23				
B-15	5.11 2/9/23				
NR-13 (2 3'	$\frac{1}{1} \frac{1}{2} = \frac{1}$	2-3'			
03-16(0-11)	23	0-1' G 1 X			
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8RCR.	Texas 11 Al S 6010 : 8RCRA	Ca Cr Co Cu Fe Pb A r Co Cu Pb Mn Mo Ni	Ag Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z Se Ag Tl U Hg: 1631/245.1/7470/7471	/7470 / 7471
Notice: Signature of this document and of service. Eurofins Xenco will be liable of Eurofins Xenco. A minimum charge o	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 nego	rder from client company to Eurofins Xenco, its affiliates an zonsibility for any losses or expenses incurred by the client 5 for each sample submitted to Eurofins Xenco, but not an	d subcontractors. It assigns standard tems and If such losses are due to circumstances beyond alyzed. These tems will be enforced unless prev	erns and conditions beyond the control lless previously negotlated.	
Relinquished by: (Signature)	ture) Received by: (Signature)	re) 154 Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
· · jenf	()(ve) it	2.9.23 2/9/23 1540	0		
000	T		4		

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V UST/F UST/F V
Vi K Se Vi K Se Vi Recei
Recei

Login Sample Receipt Checklist

Client: AECOM

Login Number: 4081 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-4081-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 5/8/2024 1:03:13 PM

13

Job Number: 890-4081-1 SDG Number: 60689116

List Source: Eurofins Midland

List Creation: 02/13/23 08:35 AM

Login Sample Receipt Checklist

Client: AECOM

Login Number: 4081 List Number: 2 Creator: Rodriguez, Leticia

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

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


Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Bradley Wynne AECOM 13355 Noel Road Suite 400 Dallas, Texas 75240 Generated 3/1/2023 5:21:44 PM Revision 3

JOB DESCRIPTION

Amoco CTB SDG NUMBER 60689116

JOB NUMBER

890-4082-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization



Authorized for release by Sylvia Garza, Project Manager Sylvia.Garza@et.eurofinsus.com (832)544-2004 Generated 3/1/2023 5:21:44 PM Revision 3

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: 60689116

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Definitions/Glossary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4082-1 SDG: 60689116

Qualifiers

HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	7
%R	Percent Recovery	
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13

Glossary

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						
Percent Recovery						
Contains Free Liquid						
Colony Forming Unit						
Contains No Free Liquid						
Duplicate Error Ratio (normalized absolute difference)						
Dilution Factor						
Detection Limit (DoD/DOE)						
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample						
Decision Level Concentration (Radiochemistry)						
Estimated Detection Limit (Dioxin)						
Limit of Detection (DoD/DOE)						
Limit of Quantitation (DoD/DOE)						
EPA recommended "Maximum Contaminant Level"						
Minimum Detectable Activity (Radiochemistry)						
Minimum Detectable Concentration (Radiochemistry)						
Method Detection Limit						
Minimum Level (Dioxin)						
Most Probable Number						
Method Quantitation Limit						
Not Calculated						
Not Detected at the reporting limit (or MDL or EDL if shown)						
Negative / Absent						
Positive / Present						
Practical Quantitation Limit						
Presumptive						
Quality Control						
Relative Error Ratio (Radiochemistry)						
Reporting Limit or Requested Limit (Radiochemistry)						
Relative Percent Difference, a measure of the relative difference between two points						
Toxicity Equivalent Factor (Dioxin)						
Toxicity Equivalent Quotient (Dioxin)						
Too Numerous To Count						

Job ID: 890-4082-1 SDG: 60689116

Job ID: 890-4082-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4082-1

Released DB-12 (7-8), DB-12 (8-9), DB-12 (9-10') for Chloride based on inital results.

Based on results, released DB-12 (6-7) for chloride on rush TAT.

Released DB-12 (5-6) from hold for Chloride analysis per client request.

Analyze the following additional samples for Chloride on ASAP TAT:

DB-12 (4-5) DB-14 (4-5) DB-18 (0-1)

Receipt

The samples were received on 2/9/2023 3:40 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 4.0°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46340 and analytical batch 880-46411 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.

4

		Client	t Sample Re	esults				1000
Client: AECOM Project/Site: Amoco CTB							Job ID: 890 SDG: 60	
Client Sample ID: DB-12 (4-5 Date Collected: 02/08/23 15:29 Date Received: 02/09/23 15:40 Sample Depth: 4 - 5	5')					Lab Samp	ole ID: 890-4 Matrix	4082- x: Soli
Method: EPA 300.0 - Anions, Ion Analyte		t <mark>ography</mark> Qualifier	- Soluble RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	733		4.95	mg/Kg		•	02/15/23 12:39	
Client Sample ID: DB-12 (5-6 Date Collected: 02/08/23 15:30 Date Received: 02/09/23 15:40 Sample Depth: 5 - 6	5')					Lab Samp	ole ID: 890-4 Matrix	4082- x: Soli
Method: EPA 300.0 - Anions, Ion				11-24	_	During	Australia	
Analyte	783	Qualifier	RL	Unit mg/Kg	D	Prepared	Analyzed 02/16/23 19:58	Dil Fa
_			1.00					
Client Sample ID: DB-12 (6-7 Date Collected: 02/08/23 15:31 Date Received: 02/09/23 15:40 Sample Depth: 6 - 7 Method: EPA 300.0 - Anions, Ion		tography	- Soluble				ole ID: 890-4 Matrix	x: Soli
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1070		5.01	mg/Kg			02/20/23 19:32	
Client Sample ID: DB-12 (7-8 Date Collected: 02/08/23 15:32 Date Received: 02/09/23 15:40 Sample Depth: 7 - 8	3')					Lab Samp	ble ID: 890-4 Matrix	4082- x: Soli
Method: EPA 300.0 - Anions, Ion	Chroma	tography	- Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	733		4.97	mg/Kg			02/22/23 22:31	
Client Sample ID: DB-12 (8-9 Date Collected: 02/08/23 15:33 Date Received: 02/09/23 15:40 Sample Depth: 8 - 9))					Lab Samp	ole ID: 890-4 Matrix	4082- x: Soli
Method: EPA 300.0 - Anions, Ion								
Analyte	Result 978	Qualifier	RL 	Unit mg/Kg	<u> </u>	Prepared	Analyzed 02/24/23 17:15	Dil Fa
			24.0	mg/rtg				
Client Sample ID: DB-12 (9-1 Date Collected: 02/08/23 15:34 Date Received: 02/09/23 15:40 Sample Depth: 9 - 10	l 0')					Lab Samp	ole ID: 890-4 Matrix	4082- x: Soli
Method: EPA 300.0 - Anions, Ion					_		.	
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1020		25.3	mg/Kg			03/01/23 02:11	

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Client Sample Results Client: AECOM Job ID: 890-4082-1 Project/Site: Amoco CTB SDG: 60689116 Client Sample ID: DB-14 (4-5') Lab Sample ID: 890-4082-24 Date Collected: 02/09/23 11:37 Matrix: Solid Date Received: 02/09/23 15:40 Sample Depth: 4 - 5 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** RL Unit D Analyzed Dil Fac Prepared Chloride 5.01 02/15/23 12:43 393 mg/Kg 1 Client Sample ID: DB-18 (0-1') Lab Sample ID: 890-4082-31 Date Collected: 02/09/23 12:24 Matrix: Solid Date Received: 02/09/23 15:40 Sample Depth: 0 - 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 567 F1 4.97 mg/Kg 02/15/23 12:48 1

Project/Site: Amoco CTB

Lab Sample ID: MB 880-4634	0/1 -A								Clie	ent Sam	ple ID: Meth	nod	Blank
Matrix: Solid											Prep Type	e: So	oluble
Analysis Batch: 46411													
		MB	MB										
Analyte			Qualifier		RL		Unit		<u>D</u> <u>P</u>	repared	Analyzed		Dil Fa
Chloride	<	5.00	U		5.00		mg/K	g			02/15/23 11:	29	
- Loh Samala ID: LCS 990, 462								Clie			Lab Contr		
Lab Sample ID: LCS 880-4634 Matrix: Solid	+U/2-A							Cile	nt Sa		: Lab Contro		
											Prep Type	9: 30	
Analysis Batch: 46411				Spike		LCS	1.09				%Rec		
Analyta				Added		-	Qualifier	Unit		%Rec	%Rec Limits		
Analyte Chloride				250		240.7	Quaimer	mg/Kg	D	96	90 - 110		
-				250		240.7		mg/kg		90	90-110		
Lab Sample ID: LCSD 880-46	340/3-A						c	lient Sa	mple	ID: Lab	Control Sa	mple	e Dur
Matrix: Solid											Prep Typ		
Analysis Batch: 46411													
·····,				Spike		LCSD	LCSD				%Rec		RPI
Analyte				Added		Result	Qualifier	Unit	D	%Rec		RPD	Limi
Chloride				250		241.0		mg/Kg		96	90 - 110	0	2
-								0 0					
Lab Sample ID: 890-4082-31 I	NS								C	lient Sa	ample ID: DI	<mark>3-18</mark>	(0-1
Matrix: Solid											Prep Type	e: So	olubl
Analysis Batch: 46411													
	Sample	San	nple	Spike		MS	MS				%Rec		
Analyte	Result	Qua	alifier	Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	567	F1		249		780.6	F1	mg/Kg		86	90 - 110		
Lab Sample ID: 890-4082-31 I	NSD								C	lient Sa	ample ID: DI		
Matrix: Solid											Prep Type	e: So	olubl
Analysis Batch: 46411	<u> </u>	•		• "							~ -		
A	Sample		•	Spike		MSD		11	_	0/ D	%Rec		RP
Analyte	Result			Added		780.0	Qualifier	Unit	D	%Rec 86		RPD 0	Lim
Chloride	567	FI		249		780.0	FI	mg/Kg		80	90 - 110	0	2
Lab Sample ID: MB 880-4651	9/1-A								Clie	ent Sam	ple ID: Meth	bor	Blan
Matrix: Solid											Prep Type		
Analysis Batch: 46554													
		мв	МВ										
Analyte	Re	sult	Qualifier		RL		Unit		D P	repared	Analyzed		Dil Fa
Chloride		5.00	-		5.00		mg/K				02/16/23 17:		
• ⁻							5	0					
Lab Sample ID: LCS 880-4651	19/2-A							Clie	nt Sa	mple ID	: Lab Contro	ol Sa	ampl
Matrix: Solid											Prep Type		
Analysis Batch: 46554													
				Spike		LCS	LCS				%Rec		
Analyte				Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride				250		232.5		mg/Kg		93	90 - 110		
							_		_				_
-							· · · · · ·	liont Sa	molo		Control Co	mpla	ם חו
Lab Sample ID: LCSD 880-46	519/3-A						, c	ment oc	imple	ID: Lab	Control Sa		
Matrix: Solid	519/3-A							ment or	impie	ID: Lab	Prep Type		
	519/3-A								imple	ID: Lau	Prep Type		olubl
Matrix: Solid Analysis Batch: 46554	519/3-A			Spike		LCSD	LCSD				Prep Type %Rec	e: So	oluble RPI
Matrix: Solid	519/3-A			Spike Added				Unit		%Rec	Prep Type %Rec		olubl

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Chloride

237.5

mg/Kg

95

90 - 110

250

2

Project/Site: Amoco CTB

QC Sample Results

Job ID: 890-4082-1 SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46688/1-A Matrix: Solid							Clie	ent Sam	ple ID: Mo Prep Ty		
Analysis Batch: 46720											
		MB									
Analyte		Qualifier		RL	Unit		<u>D</u> <u>P</u>	repared	Analyz		Dil Fac
Chloride	<5.00	U		5.00	mg/K	g			02/20/23	16:33	1
Lab Sample ID: LCS 880-46688/2-A Matrix: Solid						Clie	ent Sa	mple ID	: Lab Con Prep Ty		
Analysis Batch: 46720											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	235.3		mg/Kg		94	90 - 110		
Lab Sample ID: LCSD 880-46688/3- Matrix: Solid	Α				c	lient Sa	ample	ID: Lab	Control S Prep Ty		
Analysis Batch: 46720									Lieh i	ype. o	oluble
Analysis Buton, TOTES			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	235.4		mg/Kg		94	90 - 110	0	
Lab Sample ID: MB 880-46796/1-A Matrix: Solid							Clie	ent Sam	ple ID: Mo Prep Ty		
Analysis Batch: 46979	MD	мв									
Analyto	Pocult	Qualifior		DI	llnit		n D	ronarod			
Analyte Chloride	<5.00	Qualifier U		RL 5.00	Unit mg/K	g		repared	Analyz 02/22/23	20:21	Dil Fac 1
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid	<5.00	-				g		-		20:21	1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A	<5.00	-	 Spike	5.00		g		-	02/22/23	20:21	1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid	<5.00	-	Spike Added	5.00 LCS	mg/K	g		-	02/22/23 : Lab Con Prep Ty	20:21	1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979	<5.00	-	•	5.00 LCS	LCS	g Clie	ent Sa	mple ID	02/22/23 : Lab Con Prep Ty %Rec	20:21	1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride	<5.00	-	Added	5.00 LCS Result	mg/K LCS Qualifier	g Clie <u>Unit</u> mg/Kg	ent Sar	mple ID <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110	20:21	1 ample oluble
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3-	<5.00	-	Added	5.00 LCS Result	mg/K LCS Qualifier	g Clie <u>Unit</u> mg/Kg	ent Sar	mple ID <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 OCONTROL S	20:21 htrol S ype: S	ample oluble
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid	<5.00	-	Added	5.00 LCS Result	mg/K LCS Qualifier	g Clie <u>Unit</u> mg/Kg	ent Sar	mple ID <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110	20:21 htrol S ype: S	ample oluble
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3-	<5.00	-	Added 250	5.00 LCS Result 245.3	LCS Qualifier	g Clie <u>Unit</u> mg/Kg	ent Sar	mple ID <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 Control S Prep Ty	20:21 htrol S ype: S	1 oluble le Dup oluble
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979	<5.00	-	Added 250 Spike	5.00 LCS Result 245.3	LCS Qualifier LCSD	g Clie <u>Unit</u> mg/Kg Client Sa	ent Sar D_ ample	mple ID <u>%Rec</u> 98 ID: Lab	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 • Control S Prep Ty %Rec	20:21 htrol S ype: S Sampl ype: S	1 ample oluble le Dup oluble RPD
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte	<5.00	-	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result	LCS Qualifier	g Clie Unit mg/Kg Client Sa Unit	ent Sar	mple ID %Rec 98 ID: Lab	 O2/22/23 Lab Con Prep Ty %Rec Limits 90 - 110 Control s Prep Ty %Rec Limits 	20:21 htrol S ype: S Sampl ype: S	1 ample oluble le Dup oluble RPD Limit
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979	<5.00	-	Added 250 Spike	5.00 LCS Result 245.3	LCS Qualifier LCSD	g Clie <u>Unit</u> mg/Kg Client Sa	ent Sar D_ ample	mple ID <u>%Rec</u> 98 ID: Lab	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 • Control S Prep Ty %Rec	20:21 htrol S ype: S Sampl ype: S	1 ample oluble le Dup oluble RPD Limit
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte	<5.00	-	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result	LCS Qualifier LCSD	g Clie Unit mg/Kg Client Sa Unit	ent Sar D ample D	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 O Control S %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Limits 90 - 110 ple ID: Ma	20:21 htrol S ype: S Sampl ype: S <u>RPD</u> 0 ethod	1 ample oluble le Dup oluble RPD Limit 20 Blank
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride	<5.00	-	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result	LCS Qualifier LCSD	g Clie Unit mg/Kg Client Sa Unit	ent Sar D ample D	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 Control s Prep Ty %Rec Limits 90 - 110 Control s Prep Ty %Rec Limits 90 - 110	20:21 htrol S ype: S Sampl ype: S <u>RPD</u> 0 ethod	1 ample oluble le Dup oluble RPD Limit 20 Blank
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A	<5.00	-	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result	LCS Qualifier LCSD	g Clie Unit mg/Kg Client Sa Unit	ent Sar D ample D	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 O Control S %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Limits 90 - 110 ple ID: Ma	20:21 htrol S ype: S Sampl ype: S <u>RPD</u> 0 ethod	1 ample oluble le Dup oluble RPD Limit 20 Blank
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A Matrix: Solid	<5.00	-	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result	LCS Qualifier LCSD	g Clie Unit mg/Kg Client Sa Unit	ent Sar D ample D	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 O Control S %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Limits 90 - 110 ple ID: Ma	20:21 htrol S ype: S Sampl ype: S <u>RPD</u> 0 ethod	1 ample oluble le Dup oluble RPD Limit 20 Blank
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Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A Matrix: Solid Analysis Batch: 47217	<5.00 A 	MB Qualifier	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result 246.1	LCS Qualifier LCSD Qualifier	g Clie Unit mg/Kg Client Sa Unit mg/Kg	ent Sar D_ ample D_ Clie	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98 ent Sam	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 0 Control S Prep Ty %Rec Limits 90 - 110 90 - 110 prep Ty %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Prep Ty	20:21 ntrol S ype: S Samply ype: S RPD 0 ethod ype: S 220 20:21	ample oluble oluble RPD Limit 20 Blank oluble
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A Matrix: Solid Analysis Batch: 47217 Analyte Chloride Lab Sample ID: LCS 880-47164/2-A Matrix: Solid	<5.00 A MB <u>Result</u> <5.00	MB Qualifier	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result 246.1	LCS Qualifier LCSD Qualifier	g Clie Unit mg/Kg Client Sa Unit mg/Kg	ent Sar D ample D Clie P	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98 ent Sam	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 O Control S Prep Ty %Rec Limits 90 - 110 O Control S Prep Ty %Rec Limits 90 - 110 ple ID: Me Prep Ty Analyz	20:21 htrol S ype: S Samply ype: S <u>RPD</u> 0 ethod ype: S 2 2 2 2 2 2 2 2 2 2 2 2 2	1 ample oluble le Dup oluble <u>RPD</u> Limit 20 Blank oluble Dil Fac 1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A Matrix: Solid Analysis Batch: 47217 Analyte Chloride Lab Sample ID: LCS 880-47164/2-A	<5.00 A MB <u>Result</u> <5.00	MB Qualifier	Added 250 Spike Added 250	5.00 LCS Result 245.3 LCSD Result 246.1 5.00	LCS Qualifier LCSD Qualifier Unit mg/K	g Clie Unit mg/Kg Client Sa Unit mg/Kg	ent Sar D ample D Clie P	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98 ent Sam	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 O Control S Prep Ty %Rec Limits 90 - 110 Ø Control S Prep Ty %Rec Limits 90 - 110 ple ID: Ma Prep Ty 02/22/23 Lab Con Prep Ty	20:21 htrol S ype: S Samply ype: S <u>RPD</u> 0 ethod ype: S 2 2 2 2 2 2 2 2 2 2 2 2 2	1 ample oluble le Dup oluble RPD Limit 20 Blank oluble Dil Fac 1 ample
Chloride Lab Sample ID: LCS 880-46796/2-A Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: LCSD 880-46796/3- Matrix: Solid Analysis Batch: 46979 Analyte Chloride Lab Sample ID: MB 880-47164/1-A Matrix: Solid Analysis Batch: 47217 Analyte Chloride Lab Sample ID: LCS 880-47164/2-A Matrix: Solid	<5.00 A MB <u>Result</u> <5.00	MB Qualifier	Added 250 Spike Added	5.00 LCS Result 245.3 LCSD Result 246.1 5.00 LCSD	LCS Qualifier LCSD Qualifier	g Clie Unit mg/Kg Client Sa Unit mg/Kg	ent Sar D ample D Clie P	mple ID <u>%Rec</u> 98 ID: Lab <u>%Rec</u> 98 ent Sam	02/22/23 : Lab Con Prep Ty %Rec Limits 90 - 110 0 Control S Prep Ty %Rec Limits 90 - 110 0 Control S Prep Ty %Rec Limits 90 - 110 prep Ty %Rec Limits 90 - 110 ple ID: Ma Prep Ty	20:21 htrol S ype: S Samply ype: S <u>RPD</u> 0 ethod ype: S 2 2 2 2 2 2 2 2 2 2 2 2 2	1 ample oluble le Dup oluble RPD Limit 20 Blank oluble Dil Fac 1 ample

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5 6

Job ID: 890-4082-1 SDG: 60689116

Project/Site: Amoco CTB Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-47164/3-A Matrix: Solid Analysis Batch: 47217					C	lient Sa	mple	ID: Lab	Control Prep Ty		
		Spike		LCSD	LCSD				%Rec		RPD
Analyte		Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250		234.8		mg/Kg		94	90 - 110	0	20
Lab Sample ID: MB 880-47404/1-A							Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Solid									Prep Ty	ype: So	oluble
Analysis Batch: 47476											
MB	MB										
	Qualifier		RL		Unit		D P	repared	Analyz		Dil Fac
Chloride <5.00	U		5.00		mg/K	g			03/01/23	01:34	1
Lab Sample ID: LCS 880-47404/2-A						Clie	nt Sa	mple ID	: Lab Cor		
Matrix: Solid									Prep Ty	pe: So	elduic
Analysis Batch: 47476		Spike		1.00	LCS				%Rec		
Analyte		Added		-	Qualifier	Unit	D	%Rec	Limits		
Chloride		250		249.8	Quanner	mg/Kg		100	90 - 110		
		200		240.0		iiig/itg		100	00-110		
Lab Sample ID: LCSD 880-47404/3-A					C	lient Sa	mple	ID: Lab	Control	Sample	e Dup
Matrix: Solid									Prep Ty		
Analysis Batch: 47476											
		Spike		LCSD	LCSD				%Rec		RPD
Analyte		Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250		246.1		mg/Kg		98	90 - 110	2	20

QC Association Summary

Client: AECOM Project/Site: Amoco CTB

HPLC/IC

Leach Batch: 46340

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4082-1	DB-12 (4-5')	Soluble	Solid	DI Leach	
890-4082-24	DB-14 (4-5')	Soluble	Solid	DI Leach	
890-4082-31	DB-18 (0-1')	Soluble	Solid	DI Leach	
MB 880-46340/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46340/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46340/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4082-31 MS	DB-18 (0-1')	Soluble	Solid	DI Leach	
890-4082-31 MSD	DB-18 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 46411

890-4082-1	DB-12 (4-5')	Soluble	Solid	DI Leach		
890-4082-24	DB-14 (4-5')	Soluble	Solid	DI Leach		5
890-4082-31	DB-18 (0-1')	Soluble	Solid	DI Leach		
MB 880-46340/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-46340/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-46340/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		7
890-4082-31 MS	DB-18 (0-1')	Soluble	Solid	DI Leach		
890-4082-31 MSD	DB-18 (0-1')	Soluble	Solid	DI Leach		8
Analysis Batch: 464	11					g
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-4082-1	DB-12 (4-5')	Solublo	Solid	200.0	40040	
	DD-12 (4 -5)	Soluble	Solid	300.0	46340	
890-4082-24	DB-12 (4-5') DB-14 (4-5')	Soluble	Solid	300.0	46340 46340	
890-4082-24 890-4082-31	()					
	DB-14 (4-5')	Soluble	Solid	300.0	46340	
890-4082-31	DB-14 (4-5') DB-18 (0-1')	Soluble Soluble	Solid Solid	300.0 300.0	46340 46340	
890-4082-31 MB 880-46340/1-A	DB-14 (4-5') DB-18 (0-1') Method Blank	Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	46340 46340 46340	
890-4082-31 MB 880-46340/1-A LCS 880-46340/2-A	DB-14 (4-5') DB-18 (0-1') Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	46340 46340 46340 46340	

Leach Batch: 46519

Lab Sample ID 890-4082-2	Client Sample ID DB-12 (5-6')	Prep Type Soluble	Matrix	Method DI Leach	Prep Batch
MB 880-46519/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46519/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46519/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46554

	b Sample ID 0-4082-2	Client Sample ID DB-12 (5-6')	Prep Type Soluble	Matrix Solid	Method Pr 300.0	ep Batch 46519
ME	3 880-46519/1-A	Method Blank	Soluble	Solid	300.0	46519
LC	S 880-46519/2-A	Lab Control Sample	Soluble	Solid	300.0	46519
LĊ	SD 880-46519/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46519

Leach Batch: 46688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4082-3	DB-12 (6-7')	Soluble	Solid	DI Leach
MB 880-46688/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-46688/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-46688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 46720

Lab Sample ID 890-4082-3	Client Sample ID DB-12 (6-7')	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 46688
MB 880-46688/1-A	Method Blank	Soluble	Solid	300.0	46688
LCS 880-46688/2-A	Lab Control Sample	Soluble	Solid	300.0	46688
LCSD 880-46688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46688
Leach Batch: 46796					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4082-4	DB-12 (7-8')	Soluble	Solid	DI Leach	

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Job ID: 890-4082-1

SDG: 60689116

QC Association Summary

Client: AECOM Project/Site: Amoco CTB

HPLC/IC (Continued)

Leach Batch: 46796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46796/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46796/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46796/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4082-4	DB-12 (7-8')	Soluble	Solid	300.0	46796
MB 880-46796/1-A	Method Blank	Soluble	Solid	300.0	46796
LCS 880-46796/2-A	Lab Control Sample	Soluble	Solid	300.0	46796
LCSD 880-46796/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46796

Leach Batch: 47164

Lab Sample ID 890-4082-5	Client Sample ID DB-12 (8-9')	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
MB 880-47164/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47164/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47164/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 47217

Lab Sample ID 890-4082-5	Client Sample ID DB-12 (8-9')	Prep Type Soluble	Matrix	Method 300.0	Prep Batch 47164
MB 880-47164/1-A	Method Blank	Soluble	Solid	300.0	47164
LCS 880-47164/2-A	Lab Control Sample	Soluble	Solid	300.0	47164
LCSD 880-47164/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47164

Leach Batch: 47404

Lab Sample ID 890-4082-6	Client Sample ID DB-12 (9-10')	Prep Type Soluble	Matrix Solid	Method Prep Batch
MB 880-47404/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-47404/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-47404/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 47476

Lab Sample ID 890-4082-6	Client Sample ID DB-12 (9-10')	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 47404
MB 880-47404/1-A	Method Blank	Soluble	Solid	300.0	47404
LCS 880-47404/2-A	Lab Control Sample	Soluble	Solid	300.0	47404
LCSD 880-47404/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47404

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Job ID: 890-4082-1 SDG: 60689116

Lab Chronicle

Job ID: 890-4082-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4082-1

Lab Sample ID: 890-4082-2

Lab Sample ID: 890-4082-3

Lab Sample ID: 890-4082-4

Lab Sample ID: 890-4082-5

Lab Sample ID: 890-4082-6

Project/Site: Amoco CTB Client Sample ID: DB-12 (4-5')

Client: AECOM

Date Collected: 02/08/23 15:29 Date Received: 02/09/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	46340	02/14/23 16:29	KS	EET MID
Soluble	Analysis	300.0		1			46411	02/15/23 12:39	СН	EET MID

Client Sample ID: DB-12 (5-6') Date Collected: 02/08/23 15:30 Date Received: 02/09/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	46519	02/16/23 15:00	KS	EET MID
Soluble	Analysis	300.0		1			46554	02/16/23 19:58	СН	EET MID

Client Sample ID: DB-12 (6-7') Date Collected: 02/08/23 15:31

Date Received: 02/09/23 15:40

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	46688	02/20/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			46720	02/20/23 19:32	СН	EET MID

Client Sample ID: DB-12 (7-8')

Date Collected: 02/08/23 15:32

Date	Received:	02/09/23	15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46796	02/22/23 16:15	KS	EET MID
Soluble	Analysis	300.0		1			46979	02/22/23 22:31	СН	EET MID

Client Sample ID: DB-12 (8-9')

Date Collected: 02/08/23 15:33 Date Received: 02/09/23 15:40

Ргер Туре	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	47164	02/24/23 11:24	KS	EET MID
Soluble	Analysis	300.0		5			47217	02/24/23 17:15	СН	EET MID

Client Sample ID: DB-12 (9-10') Date Collected: 02/08/23 15:34 Date Received: 02/09/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	47404	$\frac{01\text{Allaryzed}}{02/28/2315:00}$		EET MID
Soluble	Analysis	300.0		5	1.00 g	00 1112	47476		СН	EET MID

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Lab Chronicle

Job ID: 890-4082-1 SDG: 60689116

Project/Site: Amoco CTB

Client: AECOM

Client Sample ID: DB-14 (4-5') Date Collected: 02/09/23 11:37 Date Received: 02/09/23 15:40

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	46340	02/14/23 16:29	KS	EET MID
Soluble	Analysis	300.0		1			46411	02/15/23 12:43	СН	EET MID

Client Sample ID: DB-18 (0-1') Date Collected: 02/09/23 12:24 Date Received: 02/09/23 15:40

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46340	02/14/23 16:29	KS	EET MID
Soluble	Analysis	300.0		1			46411	02/15/23 12:48	CH	EET MID

Laboratory References:

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

Lab Sample ID: 890-4082-24

Lab Sample ID: 890-4082-31

Matrix: Solid

Matrix: Solid

8

Eurofins Carlsbad

Released to Imaging: 5/8/2024 1:03:13 PM

Accreditation/Certification Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4082-1 SDG: 60689116

Laboratory: Eurofins Midland

uthority	Program	Identification Number	Expiration Date	
exas	NELAP	T104704400-22-25	06-30-23	

Eurofins Carlsbad

Method Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4082-1 SDG: 60689116

lethod	Method Description	Protocol	Laboratory	
300.0	Anions, Ion Chromatography	EPA	EET MID	
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID	- 5
Protocol F	leferences:			
ASTM =	ASTM International			
EPA = l	JS Environmental Protection Agency			
1 - 1	P. (
	/ References:			
	D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
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				1
				- i

Eurofins Carlsbad

Sample Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4082-1 SDG: 60689116

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4082-1	DB-12 (4-5')	Solid	02/08/23 15:29	02/09/23 15:40	4 - 5
890-4082-2	DB-12 (5-6')	Solid	02/08/23 15:30	02/09/23 15:40	5 - 6
890-4082-3	DB-12 (6-7')	Solid	02/08/23 15:31	02/09/23 15:40	6 - 7
890-4082-4	DB-12 (7-8')	Solid	02/08/23 15:32	02/09/23 15:40	7 - 8
890-4082-5	DB-12 (8-9')	Solid	02/08/23 15:33	02/09/23 15:40	8 - 9
890-4082-6	DB-12 (9-10')	Solid	02/08/23 15:34	02/09/23 15:40	9 - 10
890-4082-24	DB-14 (4-5')	Solid	02/09/23 11:37	02/09/23 15:40	4 - 5
890-4082-31	DB-18 (0-1')	Solid	02/09/23 12:24	02/09/23 15:40	0 - 1

Environment Testing Housen Transport Housen Transport Housen Transport Work Order No:: PAN E. Pan, TY 19 909-300 E. Pan, TY 19 909-300 Housen Transport Format Transport Work Order No:: S. Ars. 17, 752, Apo Bitts: Jf afferent Bitts	re) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time 2/9/23 1540	(Signature) 2,9-23 1542	Jac My 2. A3	: (Signature)	Relinquished by: (Signature)
Interview Environment Testing Houton, T, V,		ditions ontrol ty negotiated.	I subcontractors. It assigns standard terms and cor f such losses are due to circumstances beyond the c lyzed. These terms will be enforced unless previous 1	to Eurofins Xenco, its affiliates and r expenses incurred by the client if ted to Eurofins Xenco, but not ana	purchase order from client company ime any responsibility for any losses o charge of \$5 for each sample submit	ent of samples constitutes a valk cost of samples and shall not assi be applied to each project and a	rill be liable only for the c rill be liable only for the c rm charge of \$85.00 will	Notice: Signature of this do of service. Eurofins Xenco v of Eurofins Xenco. A minim
Invitro Environment Testing Housen, YL21 (1902) 000, 000, YL2 (1902) 000 Work Order No	r Tl Sn U V Zn 1/7470 /7471	vi K Se	l Ca Cr Co Cu Fe Pb Mg Mn I Cr Co Cu Pb Mn Mo Ni Se Ag	Al Sb As Ba Be B Cd RA Sb As Ba Be Cd	RA 13PPM Texas 11 / TCLP / SPLP 6010 : 8RC		0 200.8 / 6 and Metal(s) to	Total 200.7 / 60 Circle Method(s)
Housen Tresting Housen Tresting Monto Tresting Work Order No::::::::::::::::::::::::::::::::::::					18-20'	2/8	18-201)	-11
Houren, IX 2011 Job 2000, DBA: T, C 21 902, 0000 Work Order No::::::::::::::::::::::::::::::::::::	Houd			×	16-191		6-181)	
Invite Environment Testing Houron TX 201 304 400 Data. TX 214 900 000 Work Order No:: B2xA5 LY MVLE Bill to: If afferent Bill to: If afferent Work Order No:: Work Order	HOLD			X	14-16'	2/8/23	14-16')	DR-11
Interview Environment Testing Houron Tr(201 30-400 Oblem, Tr(201 90-300 Oblem,	HOLD			- X	12-14'	2/8/23	12-141	- 11
Pofins Environment Testing Houron Tr(28) 304-000 Date: Tr(27) 90-0300 Work Order No: BRAD HYME Islam: If afferent Islam: Tr(27) 90-0300 Work Order No: BRAD HYME Islam: Tr(27) 90-0300 Work Order No: Work Order No: BRAD HYME Islam: Tr(27) 90-0300 Work Order No: Work Order No: AECOM Islam: Tr(27) 90-0300 Work Order No: Work Order Comments AECOM Islam: Tr(27) 90-0300 Work Order Comments Work Order Comments AECOM Islam: Tr(27) No: Islam: Tr(27) No: Work Order Comments AECOM Islam: Tr(27) No: Islam: Tr(27) No: Work Order Comments AECOM Islam: Tr(27) No: Islam: Tr(27) No: Work Order Comments AECOM Islam: Tr(27) No: Islam: Tr(27) No: Work Order Comments AECOM Islam: Tr(27) No: Islam: Tr(27) No: Work Order Comments AECOM Islam: Tr(28) No: Islam: Tr(28) No: No: AECOM Islam: Tr(28) No: Islam: Tr(28) No: No: IPT Versite: <td>HOLD</td> <td></td> <td></td> <td>- X</td> <td>9-10'</td> <td>N</td> <td>9-10')</td> <td>-121</td>	HOLD			- X	9-10'	N	9-10')	-121
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For fins Housen, Tr (281) 300-300, Obles, Tr (271) 900-300, Tr (271) 900-3	HOLD			×	6-7'	2	-71)	- 12 (
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Address:	EL RD. STE.	400 Address:			State of Project: NEW	3 ×	
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Phone:	214-971-1829	Email: bradley.	wynne @ ae	aecon.com	Deliverables: EDD	ADaPT D Oth	Other:
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P roject Number:	60689116 Routine	tine Rush Code	Cool			None: NO	DI Water: H ₂ O
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MYNNE Bill to: (if different) Work Order Comments OM Company Name: Company Name: Program: UST/PST PRP Brownfields RRC C AS Tx 752 H O Address: Address: Program: UST/PST PRP Brownfields RRC AS Tx 752 H O City, State ZIP: Address: Program: UST/PST PRP Brownfields RRC AS Tx 752 H O City, State ZIP: WynneC@ accom.com Reporting: Level III Level III PST/UST TRRP RRP AS Tx 752 H O City, State ZIP: WynneC@ accom.com Program: UST/PST ADaPT Other: AS Tum Around Tum Around Pres. ANALYSIS REQUEST Preservative C AO 6 8 9 (1116 Rush Pres. Code ANALYSIS REQUEST None: NO Diverservative C			(0		NM	5	Lavia	Project Location:
WYNNE Bill to: (if different) Work Order Comments OM Company Name: Company Name: Program: UST/PST PRP Brownfields RRC S NOEL 20. STE. 400 Address: Address: Program: UST/PST PRP Brownfields RRC A S TX T S 2 4 0 City, State ZIP: Company Name: State of Project: NEX NEX/CO 4 7 1 - 18 2.9 Email: br.dlcy.wynneCaaccom.com Accom.com Preservative Company: Deliverables: EDD ADaPT Other: 9 7 1 - 18 2.9 Turn Around ANALYSIS REQUEST Preservative Company: Preservative Company: Preservative Company:			0		-	00		Project Number:
S. HYNNE Bill to: (if different) Work Order Comments OM Company Name: Program: UST/PST PRP Brownfields RRC S. MOEL State. State of Project: NEW MEXICO A.S. T.X. J.S.2 4.0 City, State ZIP: Reporting: Level III Level III PST/UST TRRP G.T. 1829 Email: bradicy - wynneCa accom.com Com.com Deliverables: EDD ADaPT Other:	EQUEST	ANALYSIS REC		Around		ore C	-	Project Name:
WYNNE Bill to: (if different) Work Order Comments OM Company Name: Program: UST/PST PRP Brownfields RRC NOEL 20. STE. 400 Address: State of Project: NEX NEX State of Project: NEX NEX O LS_TX 7 S240 City, State ZIP: Reporting: Level II Level II Level II PST/UST TRP	EDD ADaPT			bradley		11 -	24-	Phone:
WYNNE Bill to: (if different) Work Order Continients OM Company Name: Program: UST/PST Program: UST/PST PRP Brownfields RRC State of Project: NEW MEX/CO				City, State ZIP:	75240		DALL	City, State ZIP:
WYNNE Bill to: (if different) Work Order Continients O:M Company Name: Program: UST/PST PRP Brownfields RRC				Address:	STE.	· ·	13355	Address:
BIII to: (if different)				Company Name:		р	AEL	Company Name:
	Work Order Comments			Bill to: (if different)		HYNNE	BRAD	Project Manager:
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page <u>3</u> of <u>4</u>	Page 3	IM (575) 988-3199	M (575) 392-7550, Carlsbad, N	Hobbs, N				
eL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296		X (806) 794-1296	X (915) 585-3443, Lubbock, T	EL Paso, T		Xenco		
CUROTINS Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Work Order No:	Work Order No:	TX (210) 509-3334	(432) 704-5440 San Antonio	Midland TX	nent Testina	Environm		

	Environment Testing Xenco	Midland, T EL Paso,	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	io, TX (210) 509-3334 TX (806) 794-1296	Work Order No:	der No:
		Hobbs, N	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	NM (575) 988-3199	c.www	www.xenco.com Page
Project Manager:	BRAD WYNNE	Bill to: (if different)			Wo	m
Company Name:		Company Name:			Program: UST/PST PRP	RP Brownfields
Address:	NOEL RD. STE.	4 od Address:			State of Project: NEW MEXICO	MEXICO
City, State ZIP:	5. TX 75	City, State ZIP:			Reporting: Level II 🗌 Lev	
Phone:	-1829	Email: bradley.wynne	wynne Gaeu	accom. com	Deliverables: EDD	ADaPT
Project Name:	Amoco CTB	Turn Around		ANALYSIS REQUEST	UEST	Preservative Codes
Project Number:		Rush	Code Cool			None: NO
	Louine , Eddy County , NM Due Date:		_			Cool: Cool
	land , J. Lovely	TAT starts the day received by the lab, if received by 4:30pm	300			HCL: HC H ₂ S0 ₄ : H ₂
SAMPLE RECEIPT	Temp Blank: Yes No Watte	ren Yes No	EPA			H ₃ PO ₄ : HP
Samples Received Intact:	-					NaHSO 4: NABIS
Cooler Custody Seals:	NO NA		-			7n Aretate-NaOH-7n
Total Containers:	Corrected Temperature	ure:	lori			NaOH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix Date Time	Depth Comp	Cont Ch			Sample Comments
DB-18 (0-1') Soil 2/9/23	0-1'	- X			HOLD
	Soil 2/9/13	2-31	- X			Hord
) Soil 2/9/23	4-5-1	- ×			HOLD
L) Soil 2/9/13	0-1'	- X			HOLD
	1) Soil 2/9/23	2-31	- X			Hord
191	2/9/22	-	- X			Hor
Total 200.7 / 6010 ircle Method(s) an	Total 200.8 / 6020: 8RCRA Circle Method(s) and Metal(s) to be analyzed TCI	13PPM Texas 11 Al LP / SPLP 6010 : 8RCR	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd C	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Vi K Se	Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
tice: Signature of this docume service. Eurofins Xenco will b Eurofins Xenco. A minimum c	itutes a valid p shall not assum project and a c	ase order from client company to y responsibility for any losses or 4 e of \$5 for each sample submitte	 Eurofins Xenco, its affiliates and expenses incurred by the client if d to Eurofins Xenco, but not analy 	subcontractors. It assigns standard te such losses are due to circumstances t yzed. These terms will be enforced uni	terms and conditions s beyond the control nless previously negotiated.	
Relinquished by: (Signature)	iignature) / Received by: (Signature)	ature)	Date/Time	Relinquished by: (Signature)	ture) Received by: (Signature)	Signature)
ph	Chap (M)		2/9/23 1540	2		

Login Sample Receipt Checklist

Client: AECOM

Login Number: 4082 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

List Source: Eurofins Carlsbad

Eurofins Carlsbad

Login Sample Receipt Checklist

Client: AECOM

Login Number: 4082 List Number: 2 Creator: Rodriguez, Leticia Job Number: 890-4082-1 SDG Number: 60689116

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Carlsbad



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Bradley Wynne AECOM 13355 Noel Road Suite 400 Dallas, Texas 75240 Generated 3/10/2023 3:18:53 PM

JOB DESCRIPTION

Amoco CTB SDG NUMBER 60689116

JOB NUMBER

890-4256-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Authorized for release by Sylvia Garza, Project Manager Sylvia.Garza@et.eurofinsus.com (832)544-2004 Generated 3/10/2023 3:18:53 PM

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: 60689116

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Sample Summary	12
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Definitions/Glossary

Page 207 0J 239

Client: AECOM Project/Site: Ar		Job ID: 890-4256-1 SDG: 60689116	2
Qualifiers			
			3
HPLC/IC Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
			5
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		ğ
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		9
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		

.

5

Case Narrative

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4256-1 SDG: 60689116

Job ID: 890-4256-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4256-1

Receipt

The samples were received on 3/8/2023 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DB-17A (1-2') (890-4256-1) and DB-15A (0-1') (890-4256-2).

HPLC/IC

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

		Client	Sample Res	sults					
Client: AECOM Project/Site: Amoco CTB							Job ID: 890 SDG: 60)-4256-1)689116	2
Client Sample ID: DB-17A (* Date Collected: 03/08/23 09:55	1-2')					Lab Sa	mple ID: 890- Matri	4256-1 ix: Solid	
Date Received: 03/08/23 13:00 Sample Depth: 1-2'									4
Method: EPA 300.0 - Anions, Ion Analyte		hy - Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	886		5.04	mg/Kg			03/09/23 17:21	1	
Client Sample ID: DB-15A (I Date Collected: 03/08/23 11:40 Date Received: 03/08/23 13:00)-1')					Lab Sa	mple ID: 890- Matri	4256-2 ix: Solid	7 8
Sample Depth: 0-1' Method: EPA 300.0 - Anions, Ion		-				Description			9
Analyte Chloride	Result 2680	Qualifier	RL 24.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/09/23 17:26	Dil Fac 5	
									13

Project/Site: Amoco CTB

5 6 7

QC Sample Results

Job ID: 890-4256-1 SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48181/1-A										С	lient S	ample ID:	Method	l Blank
Matrix: Solid												Prep	Type: S	Soluble
Analysis Batch: 48224														
	МВ	MB												
Analyte	Result	Qualifier		RL		ι	Jnit		D	Pre	pared	Analy	zed	Dil Fac
Chloride	<5.00	U		5.00		n	ng/Kg					03/09/23	3 13:56	1
Lab Sample ID: LCS 880-48181/2-A									Clie	ent S	Sample	ID: Lab C	ontrol S	Sample
Matrix: Solid												Prep	Type: S	Soluble
Analysis Batch: 48224														
			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Qualifi	ier L	Jnit		D	%Rec	Limits		
Chloride			250		268.4		r	ng/Kg			107	90 _ 110		
Lab Sample ID: LCSD 880-48181/3-A								Clie	ent S	amp	le ID: I	_ab Contr	ol Samp	le Dup
Matrix: Solid												Prep	Type: S	Soluble
Analysis Batch: 48224														
			Spike		LCSD	LCSD						%Rec		RPD
Analyte			Added		Result	Qualifi	ier L	Jnit		D	%Rec	Limits	RPD	Limit
Chloride			250		269.3		n	ng/Kg			108	90 _ 110	0	20

Eurofins Carlsbad

Received by OCD: 4/30/2024 7:58:36 AM

QC Association Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4256-1 SDG: 60689116

300.0

Solid

HPLC/IC

Leach Batch: 48181

LCSD 880-48181/3-A

Lab Control Sample Dup

each Batch: 48181					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-4256-1	DB-17A (1-2')	Soluble	Solid	DI Leach	
390-4256-2	DB-15A (0-1')	Soluble	Solid	DI Leach	
MB 880-48181/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48181/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-48181/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 48224					
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-4256-1	DB-17A (1-2')	Soluble	Solid	300.0	48181
90-4256-2	DB-15A (0-1')	Soluble	Solid	300.0	48181
/IB 880-48181/1-A	Method Blank	Soluble	Solid	300.0	48181

Soluble

Lab Chronicle

Job ID: 890-4256-1 SDG: 60689116

Client Sample ID: DB-17A (1-2')

Date Collected: 03/08/23 09:55 Date Received: 03/08/23 13:00

Project/Site: Amoco CTB

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 17:21	SMC	EET MID

Client Sample ID: DB-15A (0-1') Date Collected: 03/08/23 11:40 Date Received: 03/08/23 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48224	03/09/23 17:26	SMC	EET MID

Laboratory References:

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

Lab Sample ID: 890-4256-1 Matrix: Solid

Lab Sample ID: 890-4256-2

8

Matrix: Solid

Accreditation/Certification Summary

	Accreditation/C	ertification Summary			
Client: AECOM Project/Site: Amoco CTB				Job ID: 890-4256-1 SDG: 60689116	2
Laboratory: Eurofins Midla					
The accreditations/certifications listed belo	w are applicable to this report. Program	Identification Number	Expiration Date		
Texas	NELAP	T104704400-22-25	06-30-23	-	5
					6
					8
					9

Eurofins Carlsbad

Method Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4256-1 SDG: 60689116

Method	Method Description	Protocol	Laboratory	
300.0	Anions, Ion Chromatography	EPA	EET MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	
Protocol Re	ferences:			5
ASTM =	ASTM International			
EPA = U	S Environmental Protection Agency			0
Laboratory	References:			
EET MI	D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
				ð –
				6
				2

Protocol References:

Laboratory References:

Eurofins Carlsbad

Released to Imaging: 5/8/2024 1:03:13 PM

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Job ID: 890-4256-1 SDG: 60689116

Client: AECOM Project/Site: Amoco CTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4256-1	DB-17A (1-2')	Solid	03/08/23 09:55	03/08/23 13:00	1-2'	4
890-4256-2	DB-15A (0-1')	Solid	03/08/23 11:40	03/08/23 13:00	0-1'	
						5
						8
						9
						11
						13

d 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 585.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Relinquished by: (Signature) Received by: (Signature) Rece	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Months Series and subcontractors. It assigns standard	Sample Identification Matrix DB - I7A(I - 2') Soi1 DB - I5A(D - I') Soi1 Soi1	Project Number: Constraint Project Location: Constraint Sampler's Name: Constraint PO #: Temp Blank: SAMPLE RECEIPT Temp Blank: Samples Received intact: (b) Cooler Custody Seals: Yes Sample Custody Seals: Yes Sample Custody Seals: Yes	Project Name: A me ce CTB	214.971	Address: 13535 Ruck k	VName: AECON	Project Manager: BZAD LYNNE	eurotins Environ Xenco
st of samples and shall not assume any respon e applied to each project and a charge of 55 fc Received by: (Signature)	BRCRA 13PPM Iyzed TCLP / SPLP	Date Time Sampled Sampled 3/8/23 09:55 3/8/23 11:40	Ady, MA	,	-	KD. 210.100	140		Environment Testing Xenco
sibility for any losses or expo or each sample submitted to)) 3/	A 13PPM Texas 11 AI S TCLP/SPLP 6010 : 8RCRA	Depth Grab/ # of 1-2' G 1 0-1' G 1	Due Date: 3 Day TAT TAT starts the day received by the lab. if received by 4:30pm Wet Ice: 6 Day No ID: 6 Day No ID: 7 Day No Parameters Parameters		bradley. wyme	City, State ZIP:	Company Name:	Bill to: (if different)	Houston, T Midland, TX (EL Paso, TX Hobbs, NM
Eurofins Xenco, but not anab Date/Time 8/23 13.00	AI Sb As Ba Be B Cd RA Sb As Ba Be Cd Cd		loride (EPA 300)		ynica accom				Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) S09-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
such losses are due to circumstances beyond yzed. These terms will be enforced unless pre Relinquished by: (Signature) 2 2 4 4 6			890-4256 Chain of Custody	ANALYSIS REQUEST	n .con				TX (214) 902-0300 o, TX (210) 509-3334 TX (806) 794-1296 NM (575) 988-3199
s beyond the control unless previously negotiated. nature) Received by: (Signature)	Vi K Se			2T	Deliverables: EDD	Reporting: Level II Level III PST/UST TRRP	State of Project:	Work O	Work Order No:
jnature) Date/Time	Ag SiO ₂ Na Sr Ti Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	Sample Comments	Norine: NO Dri Watter: Ingo Cool: Cool MeOH: Me HCL: HC HNO ;; HN H ₂ S0 ;; H ₂ NaOH: Na H ₃ PO ;; HP NaHSO ;; NaSO ; Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	ervative	ADaPT Other:		Brownfields RRC		o.com Page of
Login Sample Receipt Checklist

Client: AECOM

Login Number: 4256 List Number: 1 Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-4256-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 5/8/2024 1:03:13 PM

Login Sample Receipt Checklist

Client: AECOM

sampling.

Login Number: 4256 List Number: 2 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of	True	

Job Number: 890-4256-1 SDG Number: 60689116

List Source: Eurofins Midland 5 6 7 8 9 10 11 List Creation: 03/09/23 10:55 AM

13



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Wallace Gilmore AECOM 19219 Katy Freeway Suite 100 Houston, Texas 77094 Generated 3/21/2023 4:38:14 PM

JOB DESCRIPTION

Amoco CTB SDG NUMBER 60689116

JOB NUMBER

890-4257-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

1

Eurofins Carlsbad

Job Notes

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

Authorization



Authorized for release by Sylvia Garza, Project Manager Sylvia.Garza@et.eurofinsus.com (832)544-2004 Generated 3/21/2023 4:38:14 PM

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: 60689116

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Definitions/Glossary

Client: AECOM Project/Site: Ar		Job ID: 890-4257-1 SDG: 60689116	7
Qualifiers			
Quaimers			3
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			5
Abbreviation	These commonly used abbreviations may or may not be present in this report.		G
¤	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		

.

4

5

Job ID: 890-4257-1 SDG: 60689116

Job ID: 890-4257-1

Project/Site: Amoco CTB

Client: AECOM

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4257-1

Per client request analyze 15C for Chloride.

Receipt

The samples were received on 3/8/2023 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DB-17B (1-2') (890-4257-1), DB-17C (1-2') (890-4257-2), DB-15B (0-1') (890-4257-3) and DB 15C (0-1') (890-4257-4).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48498 and 880-48498 and analytical batch 880-48669 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: DB-17B (1-2') (890-4257-1), DB-15B (0-1') (890-4257-3), (890-4255-A-1-A), (890-4255-A-1-B MS) and (890-4255-A-1-C MSD).

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

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Client Sample Results Client: AECOM Job ID: 890-4257-1 Project/Site: Amoco CTB SDG: 60689116 Client Sample ID: DB-17B (1-2') Lab Sample ID: 890-4257-1 Date Collected: 03/08/23 10:25 Matrix: Solid Date Received: 03/08/23 13:00 Sample Depth: 1-2' Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 03/15/23 22:33 5.05 Chloride 249 mg/Kg 1 Client Sample ID: DB-15B (0-1') Lab Sample ID: 890-4257-3 Date Collected: 03/08/23 11:50 Matrix: Solid Date Received: 03/08/23 13:00 Sample Depth: 0-1' Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Unit D Analyte RL Prepared Analyzed Dil Fac 5120 49.5 03/15/23 22:38 Chloride mg/Kg 10 Client Sample ID: DB 15C (0-1') Lab Sample ID: 890-4257-4 Date Collected: 03/08/23 12:00 Matrix: Solid Date Received: 03/08/23 13:00 Sample Depth: 0-1' Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed Chloride 25.0 03/20/23 21:21 1550 mg/Kg 5

Client: AECOM

Project/Site: Amoco CTB

QC Sample Results

Job ID: 890-4257-1
SDG: 60689116

Method: 300.0 - Anions, Ion Chromatography

,												
Lab Sample ID: MB 880-48498/1-A									Clier	nt Sample	D: Metho	d Blan
Matrix: Solid											ep Type:	
Analysis Batch: 48669												
	МВ	МВ										
Analyte	Result	Qualifier		RL		Unit		D	Prepare	d Ar	alyzed	Dil Fa
Chloride	<5.00	U		5.00		mg/Kg	3			03/15	6/23 21:54	
-												
Lab Sample ID: LCS 880-48498/2-A								Clie	ent Sam	ple ID: Lal	o Control	Sampl
Matrix: Solid										Pi	ep Type:	Solub
Analysis Batch: 48669												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit		D %Re	c Limits		
Chloride			250		266.0		mg/Kg		10	90 - 11	0	
-												
Lab Sample ID: LCSD 880-48498/3-A							Cli	ient S	ample I	D: Lab Coi		-
Matrix: Solid										Pi	ep Type:	Solub
Analysis Batch: 48669												
			Spike			LCSD				%Rec		RP
Analyte			Added			Qualifier	Unit		D %Re		RPI	
Chloride			250		266.4		mg/Kg		10	90 - 11	0	0 2
Lab Sample ID: MB 880-49029/1-A									Clier	nt Sample	D: Metho	d Blan
Matrix: Solid											ep Type:	
Analysis Batch: 49135												
	МВ	МВ										
Analyte	Result	Qualifier		RL		Unit		D	Prepare	d Ar	alyzed	Dil Fa
Chloride	<5.00	U		5.00		mg/Kg	j				/23 19:15	
Lab Sample ID: LCS 880-49029/2-A								CIL	ant Com	ple ID: Lal	Control	Somel
Matrix: Solid								Cin	ent Sam	-	ep Type:	
Analysis Batch: 49135											ep type.	Solubi
Analysis Batch. 49135			Spike		1.05	LCS				%Rec		
Analyte			Added			Qualifier	Unit		D %Re			
Chloride			250		251.1	Quaimer	mg/Kg		10			
			230		201.1		mg/rtg			0 90-11	0	
Lab Sample ID: LCSD 880-49029/3-A							Cl	ient S	ample I	D: Lab Coi	ntrol Sam	ple Du
Matrix: Solid										Pi	ep Type:	Solub
Analysis Batch: 49135												
			Spike		LCSD	LCSD				%Rec		RP
Analyte			Added		D 14	o	11		D %Re	c Limits	RPI	D Lim
Analyte			Added		Result	Qualifier	Unit		D %Re	C Linnis	KF1	

5 6 7

Released to Imaging: 5/8/2024 1:03:13 PM

Received by OCD: 4/30/2024 7:58:36 AM

QC Association Summary

Client: AECOM Project/Site: Amoco CTB

HPLC/IC

Leach Batch: 48498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4257-1	DB-17B (1-2')	Soluble	Solid	DI Leach	
890-4257-3	DB-15B (0-1')	Soluble	Solid	DI Leach	
MB 880-48498/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48498/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48498/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
Analysis Batch: 48669					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4257-1	DB-17B (1-2')	Soluble	Solid	300.0	48498
890-4257-3	DB-15B (0-1')	Soluble	Solid	300.0	48498
MB 880-48498/1-A	Method Blank	Soluble	Solid	300.0	48498
LCS 880-48498/2-A	Lab Control Sample	Soluble	Solid	300.0	48498
LCSD 880-48498/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48498
Leach Batch: 49029					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4257-4	DB 15C (0-1')	Soluble	Solid	DI Leach	
MB 880-49029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 49135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4257-4	DB 15C (0-1')	Soluble	Solid	300.0	49029
MB 880-49029/1-A	Method Blank	Soluble	Solid	300.0	49029
LCS 880-49029/2-A	Lab Control Sample	Soluble	Solid	300.0	49029
LCSD 880-49029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49029

Job ID: 890-4257-1 SDG: 60689116

Lab Chronicle

Job ID: 890-4257-1 SDG: 60689116

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 890-4257-1

Lab Sample ID: 890-4257-3

Client Sample ID: DB-17B (1-2') Date Collected: 03/08/23 10:25

Date	conecteu.	03/00/23	10.25
Date	Received:	03/08/23	13:00

Project/Site: Amoco CTB

Client: AECOM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	48498	03/13/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48669	03/15/23 22:33	SMC	EET MID

Client Sample ID: DB-15B (0-1') Date Collected: 03/08/23 11:50 Date Received: 03/08/23 13:00

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	48498	03/13/23 14:00	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	48669	03/15/23 22:38	SMC	EET MID

Client Sample ID: DB 15C (0-1')

Lab Sample ID: 890-4257-4 Matrix: Solid

Matrix: Solid

Date Collected: 03/08/23 12:00 Date Received: 03/08/23 13:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	49029	03/20/23 15:45	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49135	03/20/23 21:21	SMC	EET MID

Laboratory References:

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

9

Accreditation/Certification Summary Client: AECOM Job ID: 890-4257-1 Project/Site: Amoco CTB SDG: 60689116 Laboratory: Eurofins Midland The accreditations/certifications listed below are applicable to this report. Authority Program Identification Number Expiration Date Texas NELAP T104704400-22-25 06-30-23 5 6 7 8

Method Summary

Client: AECOM Project/Site: Amoco CTB Job ID: 890-4257-1 SDG: 60689116

Method	Method Description	Protocol	Laboratory	
300.0	Anions, Ion Chromatography	EPA	EET MID	_
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	
Protocol Re	eferences:			5
ASTM =	ASTM International			
EPA = L	IS Environmental Protection Agency			0
Laboratory	References:			
EET MI	D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
				3
				9
				1

Protocol References:

Laboratory References:

Eurofins Carlsbad

Client: AECOM Project/Site: Amoco CTB

Job ID: 890-4257-1 SDG: 60689116

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-4257-1	DB-17B (1-2')	Solid	03/08/23 10:25	03/08/23 13:00	1-2'	4
90-4257-3	DB-15B (0-1')	Solid	03/08/23 11:50	03/08/23 13:00	0-1'	
90-4257-4	DB 15C (0-1')	Solid	03/08/23 12:00	03/08/23 13:00	0-1'	5
						8
						9
						1
						1

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (281) 2704-5440, San Antonio, TX (210) 509-3334 El Paso, TX (915) 585: 3443, Lubbock, TX (206) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Bill to: (If different) Company Name: Image: Image:

3/21/2023

Released to Imaging: 5/8/2024 1:03:13 PM

Page 13 of 15

11 12

Login Sample Receipt Checklist

Client: AECOM

Login Number: 4257 List Number: 1 Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Job Number: 890-4257-1 SDG Number: 60689116

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 5/8/2024 1:03:13 PM

Login Sample Receipt Checklist

Client: AECOM

sampling.

Login Number: 4257 List Number: 2 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of	True	

Job Number: 890-4257-1 SDG Number: 60689116 List Source: Eurofins Midland 5 6 7 8 9 10 11 List Creation: 03/09/23 10:55 AM

13



April 19, 2024

BRAD WYNNE

AECOM - DALLAS

13355

DALLAS, TX 75240

RE: AMOCO CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		AECOM - DALLAS BRAD WYNNE 13355 DALLAS TX, 75240 Fax To:		
Received:	04/18/2024		Sampling Date:	04/17/2024
Reported:	04/19/2024		Sampling Type:	Soil
Project Name:	AMOCO CTB		Sampling Condition:	Cool & Intact
Project Number:	60729416		Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO., NM			

Sample ID: DB - 20A (0-1') (H242063-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	04/18/2024	ND	480	120	400	0.00	

Sample ID: DB - 19A (0-1') (H242063-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/18/2024	ND	480	120	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim at analyses. All claims including those for negligence and any other cause whatsoever shall be demoned we affiliates or successors attained to the performance of services hereunder by Cardinal.r In Relinquished By: Relinquished By: CLAND - AECON Date: Received. Relinquished By: Date: Received. Received. Relinquished By: Date: Received. Received. Delivered By: (Circle One) Date: Received. Sampler_UPS - Bus - Other: Observed Temp. °C %:		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: AECOM Project Manager: BRAD WYNNE	Landi alories
sing whether based in contract or tort, shall be limited to the amount path led unless made in writing and received by Cardinal within 30 days afte fattors, business interruptions, loss of use, or loss of profis incurred by c ardiess of whether such claim is based upon any of the above stated to incert By: Wed By: Wed By: Cool Intact: No No No	ZIP: 75240 Attn: BRAD WYNNE Address: 13355Noc1 Rd, Ste	P.O.# Composite	
In the client for the complexity in client for the complexity in client for the complexity in the client is subsidiaries. I by the client for the complexity is the client is subsidiaries. I results are emailed. Please provide Email address: Verbal Results. Dr ad ley who ne @ a @ complexity is a complexity. P.B. 1. of		ANALYSIS REQUEST	CHAIN OF-CUSIOUY AND ANALYSIS REQUEST





April 23, 2024

BRAD WYNNE

AECOM - DALLAS

13355

DALLAS, TX 75240

RE: AMOCO CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240		oject Number:	AMOCO CTB 60729416 BRAD WYNNE		Reported: 23-Apr-24 08:29
Sample ID	Laboratory ID	Matrix		Date Sampled	Date Received
DB - 20 B (0-1')	H242064-02	Soil		17-Apr-24 12:30	18-Apr-24 08:00
DB - 20 C (0-1')	H242064-04	Soil		17-Apr-24 13:05	18-Apr-24 08:00
DB - 19 B (0-1')	H242064-10	Soil		17-Apr-24 16:37	18-Apr-24 08:00
DB - 19 C (0-1')	H242064-12	Soil		17-Apr-24 17:16	18-Apr-24 08:00

04/23/24 - Client added chlorides to samples -04 and -12 (see COC). This is the revised report and will replace the one sent on 04/22/24.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240			Project Nun Project Mana		29416			2	Reported: 23-Apr-24 08:2	29
				20 B (0- 064-02 (Se	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	tories					
Inorganic Compounds Chloride	2120		16.0	mg/kg	4	4042203	AC	22-Apr-24	4500-Cl-B	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240			Proje Project Numb Project Manag Fax	er: 60 Jer: BF				2	Reported: 23-Apr-24 08:	29
			DB - 2 H2420		<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	2000		16.0	mg/kg	4	4042307	AC	23-Apr-24	4500-Cl-B	

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Celey D. Keene, Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240			Project Num Project Mana	ber: 60				2	Reported: 23-Apr-24 08:	29
				19 B (0 064-10 (<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	800		16.0	mg/kg	4	4042203	AC	22-Apr-24	4500-Cl-B	

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Celey D. Keene, Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240			Project Num Project Mana	nber: 60				2	Reported: 23-Apr-24 08:	29
				19 C (0 064-12 (\$	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	1340		16.0	mg/kg	4	4042307	AC	23-Apr-24	4500-Cl-B	

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Celey D. Keene, Lab Director/Quality Manager



AECOM - DALLAS 13355 DALLAS TX, 75240		Project: A Project Number: 6 roject Manager: B				Reported: Apr-24 08	:29
DALLAS TX, 75240		Fax To:					
Inorganic Compounds - Quality Control							
	Inorga	nic Compounds -	- Quality Control	l			
	Inorga	nic Compounds - Cardinal Labo	- •	l			

7 maryte	Result	Linit	Oints	Level	Result	/orcee	Emits	KI D	Liiiit	Ttotes
Batch 4042203 - 1:4 DI Water										
Blank (4042203-BLK1)				Prepared &	analyzed:	22-Apr-24				
Chloride	ND	16.0	mg/kg							
LCS (4042203-BS1)				Prepared &	z Analyzed:	22-Apr-24				
Chloride	480	16.0	mg/kg	400		120	80-120			
LCS Dup (4042203-BSD1)				Prepared &	k Analyzed:	22-Apr-24				
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	
Batch 4042307 - 1:4 DI Water										
Blank (4042307-BLK1)				Prepared &	k Analyzed:	23-Apr-24				
Chloride	ND	16.0	mg/kg							
LCS (4042307-BS1)				Prepared &	z Analyzed:	23-Apr-24				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4042307-BSD1)				Prepared &	k Analyzed:	23-Apr-24				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

One) - Other:	BRG	101 East Marlanc (575) 393-2326 Company Name: AE (0 M Project Manager:
Time: Date: Date: Date: Date: Time: Date: Time: Date: Trime: Date: Trime: Date: Corrected Temp. °C	HYNNE RoAD State: TX Fax #: Project Owne B H.D. (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LAND (LS)) (LS)) (LS) (LS) (LS) (LS) (LS) (L	FAX HO
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tonly Sa act		ANALYSIS REQUEST
all Samples mple Condition Observed Temp. °C		

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Released to Imaging: 5/8/2024 1:03:13 PM

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Page 9 of 10

lanager: BRAD WY NNE	P.O. #: 60729416	
Address: 13355 NOEL ROAD, SUITE 400 City: DALLAS State: TX Zip: 75024 Phone #: 214-971 - 1829 Fax #: Project #: 60729416 Project Owner: Project Name: Amoco CTB Project Location: Eddy County, NM	Company: AELOM Attn: BRAD WYNNE Address: (3355 Nort Pb, Ste City: DALLAS State: TX Zip: 75240 Phone #: Zi4-971 - 1829	Method SM4 500 CS
Sample J.D.	SLUDGE	Hold run
DR-19B (1-1.5') G 1 X DB-19C (0-1') G 1 X DB-19C (1-2') G 1 X	×××	
any claim anking whether base deemed walved unless made g without limitation, business is cardinal, regardless of whether Cardinal, regardless of whether	d in contract or tort, shall be limited to the amount paid by the client for the in writing and received by Cardinal within 30 days after completion of the app themptions, loss of use, or loss of profits incurred by client, its subsidiaries, theraptions, loss and upon any of the above shallor reasons or cherwise.	
AND - AECOM	Office All Results are emailed. brad REMARKS:	Please provid
	- Pq.	

Received by OCD: 4/30/2024 7:58:36 AM

Page 247 of 259



April 24, 2024

BRAD WYNNE

AECOM - DALLAS

13355

DALLAS, TX 75240

RE: AMOCO CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/23/24 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		AECOM - DALLAS BRAD WYNNE 13355 DALLAS TX, 75240 Fax To:		
Received:	04/23/2024		Sampling Date:	04/23/2024
Reported:	04/24/2024		Sampling Type:	Soil
Project Name:	AMOCO CTB		Sampling Condition:	Cool & Intact
Project Number:	60729416		Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO., NM			

Sample ID: DB - 19 D (0-1') (H242171-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/24/2024	ND	432	108	400	3.77	

Sample ID: DB - 20 D (0-1') (H242171-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2024	ND	432	108	400	0.00	QM-07

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 338938

QUESTIONS			
Operator:	OGRID:		
CHEVRON U S A INC	4323		
6301 Deauville Blvd	Action Number:		
Midland, TX 79706	338938		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2216547154
Incident Name	NAPP2216547154 AMOCO FEDERAL 11 CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.		
Site Name	AMOCO FEDERAL 11 CTB	
Date Release Discovered	06/03/2022	
Surface Owner	Federal	

Incident Details

Please answer all the questions in this group.			
Incident Type	Oil Release		
Did this release result in a fire or is the result of a fire	No		
Did this release result in any injuries	No		
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο		
Has this release endangered or does it have a reasonable probability of endangering public health	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 fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 2 BBL Recovered: 1 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Page 254 of 259

Action 338938

QUESTIONS (continued) Operator: OGRID: CHEVRON U S A INC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 338938 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

Date: 04/30/2024

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 338938

Page 255 of 259

QUESTIONS (continued)			
Operator:	OGRID:		
CHEVRON U S A INC	4323		
6301 Deauville Blvd	Action Number:		
Midland, TX 79706	338938		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 100 and 200 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions the	at apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation p	plan approval with this submission	Yes
Attach a comprehensive report den	nonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	extents of contamination been fully delineated	Yes
Was this release entirely co	ntained within a lined containment area	No
Soil Contamination Sampling:	: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	12900
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1060
GRO+DRO	(EPA SW-846 Method 8015M)	837
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19 15 29 11 N		
	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated time		07/01/2024
which includes the anticipated time On what estimated date will	elines for beginning and completing the remediation.	
which includes the anticipated time On what estimated date will	elines for beginning and completing the remediation. I the remediation commence e final sampling or liner inspection occur	07/01/2024
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) th	elines for beginning and completing the remediation. I the remediation commence e final sampling or liner inspection occur	07/01/2024 09/01/2024
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) th What is the estimated surface	elines for beginning and completing the remediation. I the remediation commence e final sampling or liner inspection occur he remediation complete(d)	07/01/2024 09/01/2024 09/01/2024
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) th What is the estimated surfa- What is the estimated volum	elines for beginning and completing the remediation. I the remediation commence e final sampling or liner inspection occur he remediation complete(d) ce area (in square feet) that will be reclaimed	07/01/2024 09/01/2024 09/01/2024 0
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) th What is the estimated surfact What is the estimated volum What is the estimated surfact	alines for beginning and completing the remediation. I the remediation commence e final sampling or liner inspection occur he remediation complete(d) ce area (in square feet) that will be reclaimed ne (in cubic yards) that will be reclaimed	07/01/2024 09/01/2024 09/01/2024 0 0 0

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

District I

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

QUESTIONS, Page 4

Action 338938

QUESTIONS (continued)					
Operator:	OGRID:				
CHEVRON U S A INC	4323				
6301 Deauville Blvd	Action Number:				
Midland, TX 79706	338938				
	Action Type:				
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal LEA LAND LANDFILL [fEEM0112342028] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Amy Barnhill Title: Waste & Water Specialist I hereby agree and sign off to the above statement Email: ABarnhill@chevron.com Date: 04/30/2024

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.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

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QUESTIONS, Page 5

Action 338938

QUESTIONS (continued)					
Operator: CHEVRON U S A INC	OGRID: 4323				
6301 Deauville Blvd Midland, TX 79706	Action Number: 338938				
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Deferral Requests Only					

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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QUESTIONS, Page 6

Action 338938

QUESTIONS (continued)					
Operator: CHEVRON U S A INC 6301 Deauville Blvd	OGRID: 4323 Action Number:				
Midland, TX 79706	338938				
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Sampling Event Information					
Last sampling notification (C-141N) recorded	{Unavailable.}				
Pomodiation Closura Baguast					

No

ation Closure Request

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

Requesting a remediation closure approval with this submission

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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Action 338938

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	338938
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	5/8/2024
bhall	OCD will not approve base confirmation samples representative of approximately 1,000 square feet and walls samples spaced at no more than 100 feet. OCD will approve base and wall confirmation soil samples consisting of five-point composite samples representing a surface area of no more than 500 square feet, and individual grab samples from any wet or discolored areas.	5/8/2024
bhall	Numerous delineation samples were not analyzed for TPH or benzene therefore, these constituents cannot be ruled out as contaminants of concern. All confirmation samples must be analyzed for TPH, BTEX, and chloride. All confirmation samples must meet the most stringent closure criteria listed on Table I of 19.15.29 NMAC.	5/8/2024
bhall	The requested deferral for the area within/below the active separator tank battery and associated piping is not approved with this submission as a deferral request C-141 (C-141-V-DEFERRAL) was not submitted. Additionally, a deferral request will not be approved until all contaminated soil located in areas which do not qualify for a deferral is remediated to Table I closure criteria or other applicable remediation standards, and/or reclaimed if applicable, pursuant to 19.15.29 NMAC. The deferral report must include an executive summary of all remedial activities, a scaled site map and sampling diagram, photographs of remedial activities, and laboratory analyses of final sampling for the areas that do not qualify for deferral. Additionally, the deferral request C-141 must specify which areas of the active production pad for which a deferral is requested, the square footage and volume of the area, and an explanation why the contaminants can't be removed.	5/8/2024
bhall	After the groundwater determination boring (currently scheduled for completion the week of 5/20/2024 per the email received by OCD representatives on 5/8/2024) is completed, the remediation plan section of the C-141 will need to be updated to reflect the correct depth to groundwater, if applicable. This section of the C-141 will automatically be imported into the C-141 application when the closure report is submitted.	5/8/2024
bhall	Submit a complete and accurate closure report through the OCD Permitting website by 8/9/2024. Failure to submit a complete remediation closure report by 8/9/2024 is subject to compliance and enforcement penalties pursuant to 19.15.5 NMAC.	5/8/2024