

Site Closure Report and Limited Deferral Request

Cotton Hills 23 26 27 Federal Com #001H
New Mexico Oil Conservation Division
(NMOCD) Incident ID #NRM1936556814

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

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Request

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Produced Water Spill Site
Eddy County, New Mexico
NMOCD Incident ID #NRM1936556814

Chevron Mid-Continent Business Unit (MCBU)

June 10, 2022



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1. Introduction

On behalf of Chevron Mid-Continent Business Unit (MCBU), AECOM Technical Services, Inc. (AECOM) has prepared this *Site Remediation Report and Limited Deferral Request* to describe soil excavation and confirmation sampling results associated with remediation activities conducted in March and April 2022 to address soil impacts resulting from two overlapping produced water releases that occurred at the Cotton Hills 23 26 27 Federal Com #001H site in Eddy County, New Mexico ("the Site").

2. Site Setting and Background

The Site is located at Latitude 32.0345573° North, Longitude 104.1587753° West in Eddy County, New Mexico (**Figure 1**). The Site operations features include a caliche pad, producing oil well with pump jack, product flow lines and an electrical service line. An active tank battery and associated oil and gas production equipment are present on an adjacent caliche pad immediately west of the well pad. The Site is located on U.S. Bureau of Land Management (BLM) land.

The Site and adjacent tank battery are surrounded by undeveloped property. Operations near the Site are for oil and gas exploration, development, production, or storage only. 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) New Mexico Administrative Code (NMAC).

The soils underlying the caliche well pad (1 to 2 feet thick) are comprised of calcareous clay with silty sand seams to approximately 5 feet below ground surface (ft bgs). In soil boring PCH-15 (advanced during the previous site assessment sampling), the calcareous clay is underlain by calcareous sandstone to a depth of 15 ft bgs. Silty calcareous clay and caliche are present from approximately 15 to 28 ft bgs, which is underlain by calcareous sandstone to a depth of approximately 35 ft bgs. Calcareous clay with abundant caliche seams is present between 35 ft bgs and the total depth of the boring at a depth of 51 ft bgs. Groundwater was not observed to a depth of 51 ft bgs in soil boring PCH-15.

2.1 Hydrocarbon Release History

It is noted that two separate releases occurred at this location in 2019 from the same source (pump jack) and which overlapped one another (release upon a release). Therefore, a copy of this report has been submitted separately for each release incident ID, however the remedial activities are the same for the two releases. The two releases are described as follows.

On May 15, 2019, approximately 14.29 barrels (bbls) of produced water with a dissolved chloride concentration greater than 10,000 milligrams per liter (mg/L) were reported to have been released to an unlined well pad. The release was associated with a pumping unit packing failure. Approximately 10 bbls of produced water were reported to have been recovered. **The New Mexico Oil Conservation Division (NMOCD) assigned Incident ID #NAB1915130679 to the May 2019 release.**

On October 22, 2019, a wellhead stuffing box failure resulted in approximately 18.01 bbls of produced water and 0.62 bbls of oil being released to the unlined well pad within the same area as the May 2019 release. Approximately 10.5 bbls of produced water and 0.5 bbls of oil were reported to have been recovered. **The NMOCD assigned Incident ID #NRM1936556814 to the October 2019 release.**

This report has been submitted to address the second of the two releases, the October 2019 release, assigned Incident ID #NAB1936556814. Form C-141 for the October 2019 release is included in Appendix A.

2.2 Soil Assessment and Delineation History

The following soil assessment/delineation activities have been conducted at the Site.

- In June 2019, seven initial hand auger borings (CH-01 through CH-07) were drilled to a depth of 1 ft bgs at the Site. The hand auger borings were terminated due to auger refusal in caliche well pad material. The shallow soil assessment activities were documented in the *Initial Site Assessment/Characterization Report* dated August 2019.
- In December 2019, seven air rotary delineation borings (PCH-8 through PCH-14) were drilled and sampled to depths of 5 to 10 ft bgs. In addition, soil boring PCH-15 was drilled to a depth of 51 ft bgs to evaluate the potential presence of groundwater to that depth. No groundwater was observed to a depth of 51 ft bgs in boring PCH-15. Therefore, groundwater is assumed to be present between 51 and 100 ft bgs beneath the Site.
- In July 2020, four air rotary borings (CH-16 through CH-19) were drilled and sampled for additional horizontal delineation of impacted soil. Based on the soil sampling data collected, the extent of petroleum hydrocarbon and chloride regulatory exceedances was delineated to the south, west and east.
- In April 2021, hand auger borings CH-20 through CH-22 were drilled and sampled for horizontal delineation of impacted soil north of boring CH-17.

The soil analytical results were 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
≤ 50 feet bgs	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	Benzene	10 mg/kg
	BTEX	50 mg/kg
51 feet – 100 feet bgs	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	Benzene	10 mg/kg
	BTEX	50 mg/kg

Based on the absence of groundwater to a depth of 51 ft bgs as described above for boring PCH-15, the applicable closure criteria for the Site are 10,000 mg/kg for chloride and 2,500 mg/kg for TPH.

The soil analytical results for the Site were also compared to the chloride regulatory limit of 600 mg/kg and the TPH regulatory limit of 100 mg/kg specified for the upper four feet of soil under 19.15.29.13.D.(1) NMAC for *RESTORATION, RECLAMATION AND RE-VEGETATION*.

The assessment and delineation soil boring results indicated chloride and total petroleum hydrocarbon (TPH) concentrations exceeded the regulatory limits described above for 19.15.29.12 NMAC and 19.15.29.13.D.(1) NMAC. None of the reported benzene and/or BTEX (benzene, toluene, ethylbenzene and xylenes) concentrations exceeded the applicable regulatory limits.

Soil boring locations are shown on **Figure 2**. Previous soil assessment and delineation results are shown on **Figure 3**.

The soil assessment and delineation activities were documented in the *Delineation Report and Remediation Plan(s)* dated July 2021¹. As shown on **Figure 4**, remediation of impacted soil (excavation and offsite disposal) was proposed to a maximum depth of 4 ft bgs for the area encompassing borings CH-01 through CH-05, PCH-10, PCH-11, PCH-13, PCH-14, PCH-15, and CH-17.

In an email dated October 5, 2021, the NMOCD approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), with the following conditions:

- The Workplan/Remediation Plan is approved with the following conditions: Borehole to 51' showing no groundwater allows for floor samples to be delineated/excavated to 10,000 mg/kg for chlorides, 2,500 mg/kg (GRO+DRO+MRO) or 1,000 mg/kg (GRO+DRO) for vertical delineation. Only sample points on pad that require a major facility deconstruction will be deferred. Remove contaminants safely around equipment/pipelines with a hydrovac. If you believe a certain area will require a deferral, please make sure that it has been fully delineated and specify the exact soil sample locations. The OCD needs to see that every measure has been taken to remediate the release before a deferral can be granted. After all possible contaminated soil has been removed, a formal deferral request will need to be uploaded to the OCD payment portal for review.

A copy of the email and subsequent project correspondence is provided in **Appendix A**.

3. Soil Remediation/Reclamation

During March and April 2022, soil remediation/reclamation was performed 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 following activities occurred prior to initiation of soil remediation/reclamation:

- On March 18, 2022, a pipeline/utility clearance request was submitted through the NM811 One-Call service for the proposed remediation area at the Site.
- On March 24, 2022, AECOM provided email notification to Mr. Robert Hamlet, NMOCD Artesia, office, of the soil remediation/reclamation and associated confirmation sampling activities scheduled to begin at the Site either March 28th or 29th, 2022.
- On March 25, 2022, AECOM provided email notification of the scheduled soil remediation/reclamation activities to Mr. James Amos, BLM Carlsbad Field Office.

Soil remediation/reclamation activities were initiated at the Site on March 29, 2022.

Remediation/reclamation was performed by excavation and off-site disposal of impacted soil. The impacted soil was excavated to depths of 2 to 4 ft bgs in the approximate area shown on **Figure 5**. The soil remediation/reclamation and associated confirmation sampling activities are summarized below.

3.1 Soil Confirmation Sampling and Analytical Results

In conjunction with excavation of impacted soil, confirmation samples were collected from the walls and bottom of the excavation. Per NMOCD requirements, representative five-point composite samples were

¹ Note – separate reports were submitted for each of the two releases; however, both reports contain the same sample data and information with the exception of referencing one or the other releases.

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collected from the walls and base of the excavation, approximately every 50 ft and 200 square ft respectively. No wet or discolored (stained) areas were observed during excavation, therefore no individual grab samples were collected (i.e., all samples are composites). Where the excavation extended to previous clean delineation sample locations, these sample results were also utilized to further confirm the removal of the impacted soil (i.e., CH-06, CH-07, PCH-08 and PCH-12 for walls and base samples for borings with samples below 2 and/or 4 ft bgs). Samples were also collected from any remaining areas that could not be fully excavated and where deferral is being requested (under the electrical line only, which could not be moved). The soil confirmation samples were collected in clean, laboratory-provided sample containers, labeled, and placed on ice in laboratory-provided coolers. AECOM completed Chain of Custody forms and delivered the samples to the Eurofins laboratory in Carlsbad, New Mexico.

The soil confirmation samples were submitted for laboratory analysis of chloride by EPA Method 300.0, and for TPH by EPA Method 8015NM as presented in the remedial work plan. Select soil samples were also submitted for analysis of BTEX by EPA Method 8021B, although no previous exceedances of BTEX were reported.

None of confirmation samples exhibited concentrations that exceeded the closure criteria of 10,000 mg/kg chloride and 2,500 mg/kg TPH for sites where groundwater occurs at a depth of 51 to 100 ft bgs. The TPH concentration of 148 mg/kg reported for the sample collected from a depth of approximately 2 ft bgs at sample location B-21 exceeded the soil reclamation standard of 100 mg/kg. Additional soil was removed and resampling was conducted at this location. None of the other confirmation samples indicated TPH concentrations in excess of 100 mg/kg. Chloride concentrations in excess of the 600 mg/kg reclamation standard for the upper four feet of soil were reported for several confirmation samples as described below and for which additional soil was removed and resampling conducted. The confirmation soil sampling results are summarized in **Table 1**. Laboratory analytical reports are provided in **Appendix B**. **Table 2** also presents the previous delineation sample results for locations remaining following the remedial excavation and **Table 3** presents the previous assessment sample results for locations that were removed during the remedial excavation. This data was previously submitted.

3.1.1 Excavation Wall Confirmation Samples

Five-part composite confirmation samples were collected from the excavation walls as shown on **Figure 5** and described below.

- West Wall – Confirmation samples were initially collected at three locations along the west wall of the excavation (i.e., samples WW-1, WW-2, and WW-3). The initial sample results for WW-1 indicated a chloride concentration of 285 mg/kg. Over-excavation and re-sampling were required three times at sample location WW-2 (i.e., samples WW-2A, WW-2B, and WW-2C) and one time at sample location WW-3 (i.e., sample WW-3A) before the confirmation samples exhibited chloride concentrations below 600 mg/kg. The final chloride concentrations for samples WW-2C and WW-3A were 104 mg/kg and 525 mg/kg, respectively.
- North Wall – In addition to the previous northern delineation associated with the laboratory results for samples collected from boring PCH-12, confirmation samples were initially collected at three locations along the north wall of the excavation (i.e., samples NW-1, NW-2, and NW-3). The initial sample results for samples NW-1 and NW-3 indicated chloride concentrations of 95 mg/kg and 379 mg/kg, respectively. Over-excavation and re-sampling were required twice at sample location NW-2 (i.e., samples NW-2A and NW-2B) before confirmation sample NW-2B exhibited a chloride concentration (37.4 mg/kg) below the soil reclamation limit of 600 mg/kg.
- East Wall – In addition to the previous eastern delineation associated with the laboratory results for samples collected from borings CH-06 and PCH-08, a confirmation sample was initially collected at one location along the east wall of the excavation (i.e., sample EW-1). Sample EW-1 indicated a chloride concentration of 1,070 mg/kg. Subsequent to over-excavation, sample EW-1A exhibited a chloride concentration of 566 mg/kg.
- South Wall - Confirmation samples were collected at three locations along the south wall of the excavation (i.e., samples SW-1, SW-2, and SW-3) and all three samples exhibited chloride concentrations below the soil reclamation limit of 600 mg/kg. Vacuum excavation was also conducted on the north side of the pump jack in order to remove the impacted soil which could not be removed with the excavator without risk of damage to the pump jack.

3.1.2 Excavation Base Confirmation Samples

A total of 35, five-part composite samples were collected (i.e., B-1 through B-26 and ELD-1 and ELD-2) along the base of the excavation as shown on **Figure 5**. The western portion of the excavation was initially extended to a depth of approximately 4 ft bgs, which satisfies the soil remediation/reclamation requirements approved by the NMOCD. Base samples were collected from locations B-1 through B-13 in the western portion of the excavation and the analytical results were compared to the closure criteria for sites where groundwater is present between 51 and 100 ft bgs. The laboratory analytical results for borings B-1 through B-13 were below the applicable closure criteria of 10,000 mg/kg for chloride and 2,500 mg/kg for TPH. Base samples B-1 and B-3 were also compared to the reclamation criteria since they were collected at depths less than 4 ft bgs.

The eastern portion of the excavation was initially extended to a depth of approximately 2 ft bgs and base confirmation samples were collected from locations B-14 through B-26. Based on the initial sampling results, the excavation was extended to 4 ft bgs and base samples were re-collected in the areas represented by sample locations B-15, B-16, B-18, B-21, and B-25 as shown on **Figure 5**. In the eastern portion of the excavation, all final base samples collected from 2 ft bgs exhibited chloride concentrations below 600 mg/kg and all final base samples collected from 4 ft bgs exhibited chloride concentrations below 10,000 mg/kg.

Hydrovac equipment was used to removal additional soil that could not be safely excavated around the pump jack and the electrical service line north of the pump jack. The soil over the electrical line was removed using the hydrovac until the line was visible and the upper foot of soil over the line and area was removed with an excavator. However, since the electrical line could not be removed, a limited area of soil was left in place along the electrical line until such time that production operations are discontinued at the

Site and the electrical line is taken out of service. As requested by NMOC two representative samples (i.e., ELD-1 and ELD-2) were collected for laboratory analysis from the area along the electrical line where deferral of soil remediation is proposed until production operations are discontinued at the Site and the electrical line is taken out of service. The laboratory analytical results for samples ELD-1 and ELD-2 indicated chloride concentrations of 2,020 mg/kg and 699 mg/kg, respectively. The TPH concentrations for both samples were below the soil reclamation limit of 100 mg/kg and BTEX results were reported below the sample detection limits (SDLs). The total volume of soil with chloride concentrations greater than 600 mg/kg remaining around the electric line is estimated to be 50 cubic yards.

4. Soil Disposition and Excavation Backfilling

Approximately 1,660 cubic yards of excavated soil was transported to the R360 Environmental Solutions (R360) Red Bluff Facility near Orla, Texas for disposal as oil and gas exploration and production (E&P) exempt wastes. Soil disposal documentation is provided in **Appendix C**. Site photographs are provided in **Appendix D**.

Prior to backfilling of the excavation, Brad Wynne of AECOM provided James Amos of the BLM Carlsbad Field Office with the soil confirmation sampling results and obtained BLM approval to backfill the excavation.

Caliche backfill from the Arcosa Aggregates pit near Orla, Texas was used to backfill the excavation. Prior to use, two sample of the backfill material was collected for laboratory analysis of chloride, TPH and BTEX using the laboratory analytical methods described above. The laboratory analytical results for the backfill samples indicated BTEX and TPH concentrations below laboratory method detection limits and chloride concentrations well below the soil reclamation limit of 600 mg/kg. **Table 4** presents the backfill sample results and the laboratory analytical report is included in **Appendix B**.

5. Conclusions

Based on completion of remediation/reclamation through excavation and offsite disposal of impacted soil, no further action is currently recommended for the Site based on the following:

- The final excavation wall samples and base samples collected less than 4 ft bgs, exhibited chloride and TPH concentrations below the soil reclamation limits of 600 mg/kg and 100 mg/kg, respectively.
- None of the 4-ft depth samples exhibited chloride and/or TPH concentrations that exceeded the applicable closure criteria 10,000 mg/kg and 2,500 mg/kg, respectively.
- All samples collected and analyzed for BTEX were reported with concentrations below the SDLs.
- Deferral of soil remediation is proposed for a limited area and small volume of soil (approximately 50 cubic yards) along the electrical service line north of the pump jack. Remediation of impacted soil in this area will be completed when production operations are discontinued at the Site and the electrical line is taken out of service.

Tables

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Table 1
Cotton Hills - Confirmatory Soil Analytical Results - Remedial Excavation Samples
Chevron MCBU
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)					Volatile Organics (EPA 8021B)				Chloride (Method 300.0)
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes		
Regulatory Limits (mg/kg)			0 - 4	--	--	--	100	10	--	--	--	600
			> 4	--	--	--	2,500	--	--	--	--	10,000
NW-1	03/29/22	0 - 3	<50.0	<50.0	<50.0	<50.0	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	95
NW-2*	04/01/22	0 - 2	<49.8	<49.8	<49.8	<49.8	<49.8	-	-	-	-	2,000
NW-2A*	04/05/22	0 - 2	-	-	-	-	-	-	-	-	-	1,280
NW-2B	04/07/22	0 - 2	-	-	-	-	-	-	-	-	-	37.4
NW-3	04/01/22	0 - 2	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00397	-	379
EW-1*	04/01/22	0 - 3	<49.8	<49.8	<49.8	<49.8	<49.8	-	-	-	-	1,070
EW-1A	04/05/22	0 - 3	-	-	-	-	-	-	-	-	-	566
SW-1	03/31/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00398	-	336
SW-2	04/01/22	0 - 4	<50.0	<50.0	<50.0	<50.0	<50.0	-	-	-	-	294
SW-3	04/01/22	0 - 3	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00396	-	74
WW-1	03/29/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00402	-	285
WW-2*	03/30/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<49.9	-	-	-	-	2,050
WW-2A*	04/01/22	0 - 4	-	-	-	-	-	-	-	-	-	1,020
WW-2B*	04/05/22	0 - 4	-	-	-	-	-	-	-	-	-	1,360
WW-2C	04/07/22	0 - 4	-	-	-	-	-	-	-	-	-	104
WW-3*	03/30/22	0 - 4	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00397	-	8,480
WW-3A	04/05/22	0 - 4	-	-	-	-	-	-	-	-	-	525
B-1	03/29/22	0 - 4	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00400	-	136
B-2*	03/29/22	0 - 4	<49.8	85.5	<49.8	86	<49.8	-	-	-	-	2,100
B-2A	04/01/22	> 4	-	-	-	-	-	-	-	-	-	370
B-3	03/29/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<49.9	-	-	-	-	229
B-4	03/29/22	> 4	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00402	-	275
B-5	03/30/22	> 4	<49.8	<49.8	<49.8	<49.8	<49.8	-	-	-	-	1,500
B-6	03/30/22	> 4	<50.0	<50.0	<50.0	<50.0	<50.0	-	-	-	-	1,450
B-7	03/30/22	> 4	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00399	-	617
B-8	03/30/22	> 4	<50.0	<50.0	<50.0	<50.0	<50.0	-	-	-	-	88
B-9	03/30/22	> 4	<50.0	<50.0	<50.0	<50.0	<50.0	-	-	-	-	1,160
B-10	03/31/22	> 4	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00396	-	225
B-11	03/31/22	> 4	<50.0	86.2	<50.0	86	<50.0	-	-	-	-	681
B-12	03/31/22	> 4	<50.0	52.9	<50.0	53	<50.0	-	-	-	-	1,440
B-13	03/31/22	> 4	<49.8	115	<49.8	115	<49.8	<0.00201	<0.00201	<0.00402	-	64
B-14	04/01/22	> 2	<49.9	<49.9	<49.9	<49.9	<49.9	-	-	-	-	614**

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Table 1
Cotton Hills - Confirmatory Soil Analytical Results - Remedial Excavation Samples
Chevron MCBU
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)					Volatile Organics (EPA 8021B)				Chloride (Method 300.0)
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes		
Regulatory Limits (mg/kg)		0 - 4	**	**	**	100	10	**	**	**	**	600
		> 4	**	**	**	2,500	**	**	**	**	**	10,000
B-15*	04/01/22	> 2	<50.0	<50.0	<50.0	<50.0	-	-	-	-	-	1,260
B-15A	04/05/22	> 4	-	-	-	-	-	-	-	-	-	427
B-16*	04/01/22	0 - 4	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	1,140	
B-16A	04/05/22	> 4	-	-	-	-	-	-	-	-	253	
B-17	04/01/22	0 - 4	<49.9	<49.9	<49.9	<49.9	-	-	-	-	419	
B-18*	04/01/22	0 - 4	<50.0	<50.0	<50.0	<50.0	-	-	-	-	728	
B-18A	04/05/22	> 4	-	-	-	-	-	-	-	-	12	
B-19	04/01/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	392	
B-20	04/01/22	0 - 4	<49.9	<49.9	<49.9	<49.9	-	-	-	-	191	
B-21*	04/01/22	0 - 4	<49.9	148	<49.9	148	-	-	-	-	208	
B-21A	04/05/22	> 4	<49.8	<49.8	<49.8	<49.8	-	-	-	-	-	
B-22*	04/01/22	0 - 4	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	696	
B-22A	04/05/22	> 4	-	-	-	-	-	-	-	-	201	
B-23	04/01/22	0 - 4	<49.9	<49.9	<49.9	<49.9	-	-	-	-	596	
B-24	04/01/22	0 - 4	<49.8	<49.8	<49.8	<49.8	-	-	-	-	582	
B-25*	04/01/22	0 - 4	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	723	
B-25A	04/05/22	> 4	-	-	-	-	-	-	-	-	202	
B-26	04/05/22	0 - 4	-	-	-	-	-	-	-	-	504	
ELD-1	04/05/22	2 - 3	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	2,020	
ELD-2	04/05/22	2 - 3	<49.8	51.2	<49.8	51.2	<0.00200	<0.00200	<0.00200	<0.00400	699	
ELD-DUP	04/05/22	dup of ELD-2	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	838	

Notes:

- 1. * - Additional soil excavated and sample re-collected at this location following receipt of initial results.
- 2. Soil analyses performed by Eurofins Xenco Laboratories, LLC in Midland, TX
- 3. Units for all analytical data provided are mg/kg (milligrams per kilogram).
- 4. Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC).
- 5. "ft bgs" - feet below ground surface.
- 6. "NA" - Not Analyzed
- 7. "ND" - Not Detected
- 8. "GRO" - Gasoline Range Organic Compounds
- 9. "DRO" - Diesel Range Organic Compounds
- 10. "MRO" - Motor Oil/Lube Range Organic Compounds
- 11. J - Indicates that the result is less than the Method Quantitation Limit (MQL) but greater than or equal to the Sample Detection Limit (SDL).
- 12. U - Indicates that the analyte was analyzed but not detected at or above the laboratory SDL.
- 13. E - Indicates that the result is greater than the MQL and the concentration is an estimated value.
- 14. **Bold** - Detectable concentration that exceeds laboratory method reporting limits.
- 15. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for 0-4' bgs.
- 16. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for > 4' bgs.
- 17. "-" Indicates that no applicable regulatory limit exists for that analyte.
- 18. ** - Sample result within range of concentration variability therefore additional soil not removed at this location.

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Table 2
Cotton Hills - Previous Soil Delineation Sample Locations Remaining Following Excavation
Chevron MCBU Spill Sites
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)						Volatile Organics (EPA 8260B)				Chloride (Methods 9056A, 9250 and 300.0)			
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes						
Regulatory Limits (mg/kg)		0 - 4	--	--	--	100	10	--	--	--						
		> 4	--	--	--	2,500	--	--	--	--	600					
CH-06 - 0-1	06/26/19	0-1	0.0631	U	34.6	U	ND	0.000618	U	0.00135	U	0.00111	U	237		
CH-07 - 0-1	06/26/19	0-1	0.0631	U	34.3	U	ND	0.000667	U	0.00146	U	0.0012	U	50.9		
PCH-8	12/18/19	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	161		
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.7		
		0'-2'	0.016	U	0.89	J	6.7	7.59	NA	NA	NA	NA	NA	NA	NA	
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	95.4	
		3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54.0	
PCH-9	12/18/19	4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58.3		
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	133	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	
		0-2'	0.012	U	3.8	11.5	7.7	11.5	NA	NA	NA	NA	NA	NA	NA	NA
		2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	102	
PCH-10	12/18/19	3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	206		
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	346		
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	159		
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130		
		2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	165		
PCH-12	12/18/19	4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.6		
		0-2'	0.012	U	0.62	J	8.5	9.12	NA	NA	NA	NA	NA	NA	NA	
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	55.3	
		3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.5	
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.9	
PCH-13	12/18/19	2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220		
		3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64.7	
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90.8	
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	603	
		5'-7.75'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	441	
PCH-14	12/18/19	7.5'-10'	0.011	U	4.1	6.2	10.3	NA	NA	NA	NA	NA	NA	693		
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	416	
		5'-7.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.6	
		7.5'-10'	0.011	U	1.1	J	3.3	J	NA	NA	NA	NA	NA	NA	89	

AECOM

Table 2
Cotton Hills - Previous Soil Delineation Sample Locations Remaining Following Excavation
Chevron MCBU Spill Sites
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)					Volatile Organics (EPA 8260B)				Chloride (Methods 9056A, 9250 and 300.0)			
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes					
Regulatory Limits (mg/kg)		0 - 4	--	--	--	100	10	--	--	--	600				
		> 4	--	--	--	2,500	--	--	--	--	10,000				
	CH-16	07/29/20	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	162			
1'-2'			NA	NA	NA	NA	NA	NA	NA	NA	121				
2'-3'			NA	NA	NA	NA	NA	NA	NA	NA	185				
3'-4'			NA	NA	NA	NA	NA	NA	NA	NA	100				
4'-5'			NA	NA	NA	NA	NA	NA	NA	NA	34.1				
CH-17	07/29/20	3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	371				
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	311				
CH-18	07/29/20	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	30.4				
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	418				
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	403				
		3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	253				
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	273				
CH-19	07/29/20	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	80.3				
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	143				
		2'-3'	0.012	U	1.2	J	9.1	10.3	0.00054	U	0.00065	U	0.0011	U	246
		3'-4'	NA	NA	2.3	7.8	10.1	NA	NA	NA	NA	NA	NA	150	
		4'-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	102	
CH-20	04/30/21	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	55.4		
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58.1		

Notes:

- Soil analyses performed by TestAmerica Laboratories, Inc. in Houston, TX (June 2019 samples), ALS Environmental in Houston, TX (December 2019 and July 2020 samples), and Eurofins Xenco Laboratories, LLC in Midland, TX (April 2021 samples).
- Units for all analytical data provided are mg/kg (milligrams per kilogram).
- Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC).
- "ft bgs" - feet below ground surface.
- "NA" - Not Analyzed
- "ND" - Not Detected
- "GRO" - Gasoline Range Organic Compounds
- "DRO" - Diesel Range Organic Compounds
- "MRO" - Motor Oil/Lube Range Organic Compounds
- J - Indicates that the result is less than the Method Quantitation Limit (MQL) but greater than or equal to the Sample Detection Limit (SDL).
- U - Indicates that the analyte was analyzed but not detected at or above the laboratory SDL.
- E - Indicates that the result is greater than the MQL and the concentration is an estimated value.
- Bold** - Detectable concentration that exceeds laboratory method reporting limits.
- Bold and Shaded** - Reported concentration exceeds Regulatory Limits for 0-4' bgs.
- Bold and Shaded** - Reported concentration exceeds Regulatory Limits for > 4' bgs.
- "--" Indicates that no applicable regulatory limit exists for that analyte.

Table 3
Cotton Hills - Previous Soil Assessment Sample Locations Removed During Remedial Excavation
Chevron MCBU
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)					Volatile Organics (EPA 8260B)				Chloride (Methods 9056A, 9250 and 300.0)	
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes			
Regulatory Limits (mg/kg)			0 - 4	--	--	100	2,500	10	--	--	--	600	
		> 4	--	--	--	--	--	--	--	--	--	10,000	
CH-01 - 0-1	06/26/19	0-1	327	5,490	1210	7,027	0.000582	U	0.0103	0.00496	0.230	2,610	
CH-02 - 0-1	06/26/19	0-1	0.0834	J	70.8	58	129	0.000574	U	0.00929	U	8,060	
CH-03 - 0-1	06/26/19	0-1	0.065	U	303	144	447	0.000578	U	0.000936	U	4,070	
CH-04 - 0-1	06/26/19	0-1	174	E	30,500	7410	38,084	0.001340	J	1.50	19.2	24,000	
CH-05 - 0-1	06/26/19	0-1	168	6,700	1,120	7,988	0.005630	U	0.00215	J	0.00224	4,510	
PCH-10	12/18/19	0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	865	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	922	
		0-2'	0.012	U	1.0	J	10	11.0	NA	NA	NA	NA	NA
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	361
PCH-11	12/18/19	3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	209	
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	682	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	444	
		0-2'	0.012	U	1.3	J	9.3	10.6	NA	NA	NA	NA	NA
PCH-13	12/18/19	2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	309	
		3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	274	
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,460	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	224	
PCH-14	12/18/19	0-2'	0.011	U	0.96	J	7.3	8.26	NA	NA	NA	NA	NA
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	987	
		1'-2'	0.012	U	1500	1500	3,000	NA	NA	NA	NA	3,720	
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,730	
PCH-15	12/18/19	3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,290	
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,750	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,560	
		2'-3'	0.012	U	1.2	J	4.1	5.3	NA	NA	NA	NA	1,480
CH-17	07/29/20	3'-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	627	
		0-1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,630	
		1'-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,670	
		2'-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,070	

Notes:

1. Soil analyses performed by TestAmerica Laboratories, Inc. in Houston, TX (June 2019 samples), ALS Environmental in Houston, TX (December 2019 and July 2020 samples), and Eurofins Xenco Laboratories, LLC in Midland, TX (April 2021 samples).
2. Units for all analytical data provided are mg/kg (milligrams per kilogram).
3. Regulatory Limits are from 19 15 29 New Mexico Administrative Code (NMAC).
4. "ft bgs" - feet below ground surface.
5. "NA" - Not Analyzed
6. "ND" - Not Detected
7. "GRO" - Gasoline Range Organic Compounds
8. "DRO" - Diesel Range Organic Compounds
9. "MRO" - Motor Oil/Lube Range Organic Compounds
10. J - Indicates that the result is less than the Method Quantitation Limit (MQL) but greater than or equal to the Sample Detection Limit (SDL).
11. U - Indicates that the analyte was analyzed but not detected at or above the laboratory SDL.
12. E - Indicates that the result is greater than the MQL and the concentration is an estimated value.
13. **Bold** - Detectable concentration that exceeds laboratory method reporting limits.
14. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for 0-4' bgs.
15. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for > 4' bgs.
16. "-" Indicates that no applicable regulatory limit exists for that analyte.

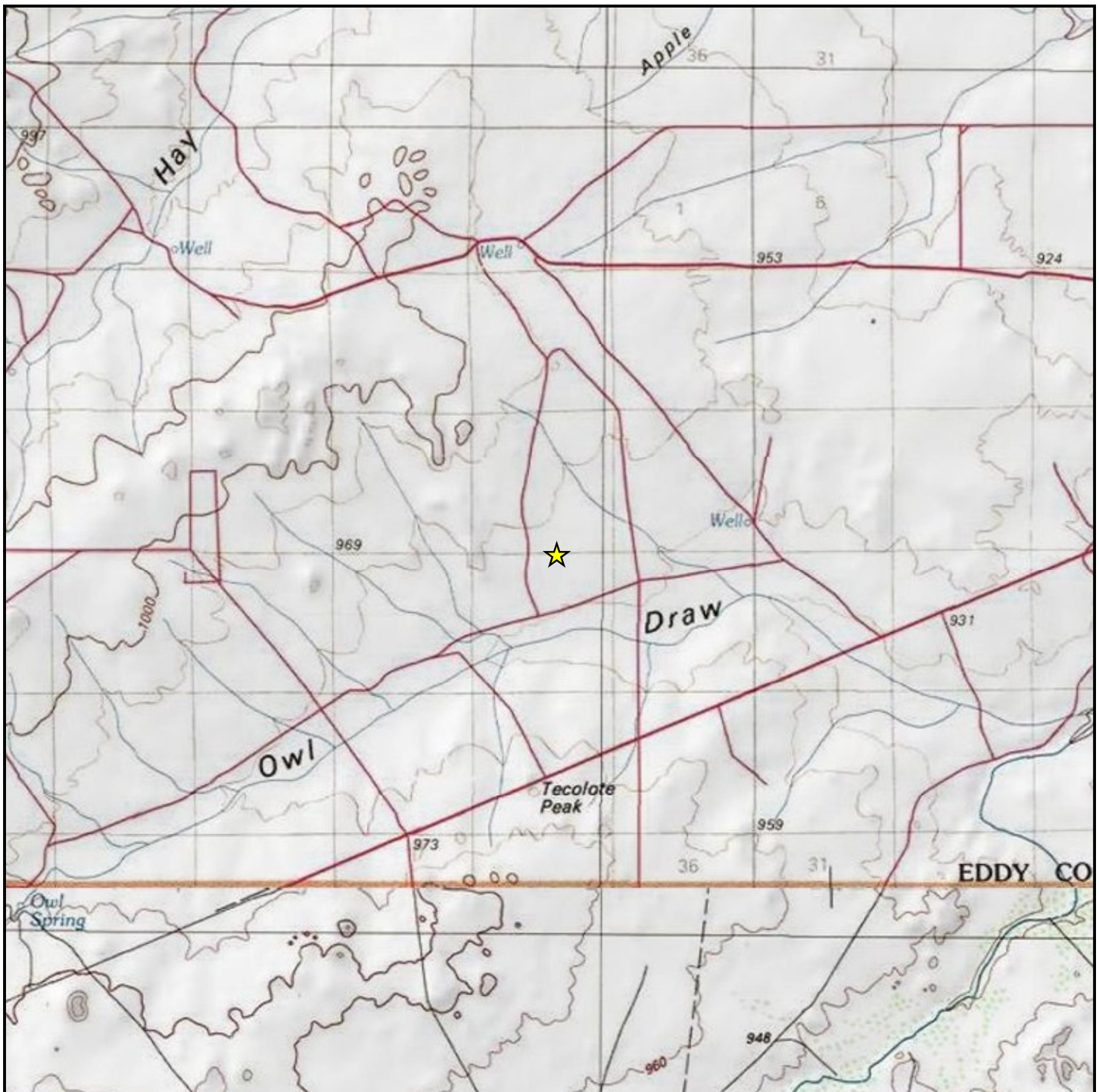


Table 4
Cotton Hills - Backfill Sample Analytical Results
Chevron MCBU
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Total Petroleum Hydrocarbons (EPA 8015 NM)						Volatile Organics (EPA 8021B)				Chloride (Method 300.0)
			GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes			
Regulatory Limits (mg/kg)			0 - 4	--	--	100	10	--	--	--	600		
			> 4	--	--	2,500	--	--	--	--	10,000		
BFM-1	03/28/22	0-4	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	115		
BFM-2	03/28/22	na	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	132		

- Notes:
1. Soil analyses performed by Eurofins Xenco Laboratories, LLC in Midland, TX
 2. Units for all analytical data provided are mg/kg (milligrams per kilogram).
 3. Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC).
 4. "ft bgs" - feet below ground surface.
 5. "NA" - Not Analyzed
 6. "ND" - Not Detected
 7. "GRO" - Gasoline Range Organic Compounds
 8. "DRO" - Diesel Range Organic Compounds
 9. "MRO" - Motor Oil/Lube Range Organic Compounds
 10. J - Indicates that the result is less than the Method Quantitation Limit (MQL) but greater than or equal to the Sample Detection Limit (SDL).
 11. U - Indicates that the analyte was analyzed but not detected at or above the laboratory SDL.
 12. E - Indicates that the result is greater than the MQL and the concentration is an estimated value.
 13. **Bold** - Detectable concentration that exceeds laboratory method reporting limits.
 14. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for 0-4' bgs.
 15. **Bold and Shaded** - Reported concentration exceeds Regulatory Limits for > 4' bgs.
 16. "... " Indicates that no applicable regulatory limit exists for that analyte.

Figures

**Legend**

★ Site Location

Map Location**Site Location Map**

Cotton Hills
Eddy County, New Mexico
Chevron MCBU



0 0.75 1.5 2.25 3
Miles

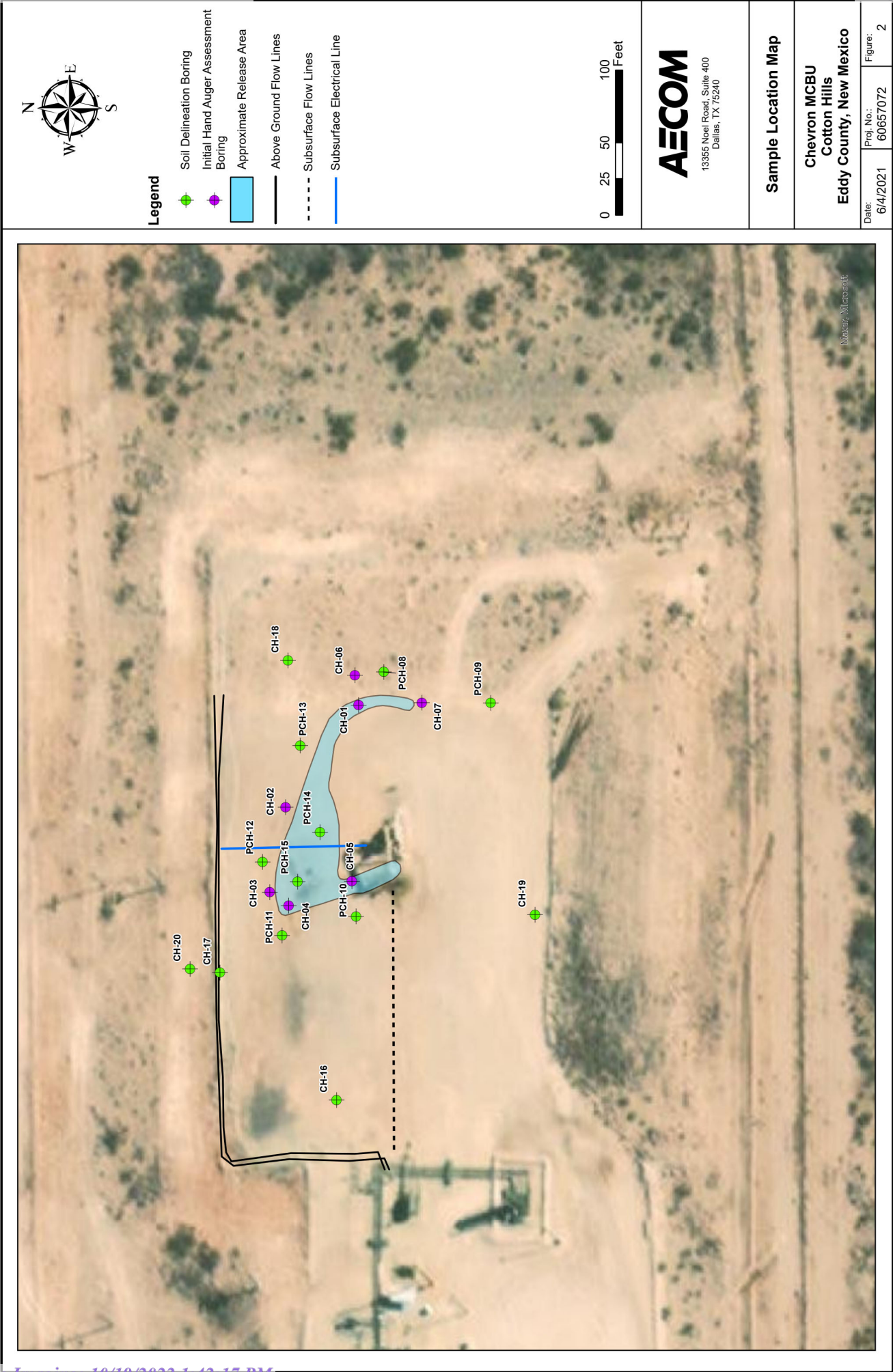
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Projection: Mercator Auxiliary Sphere

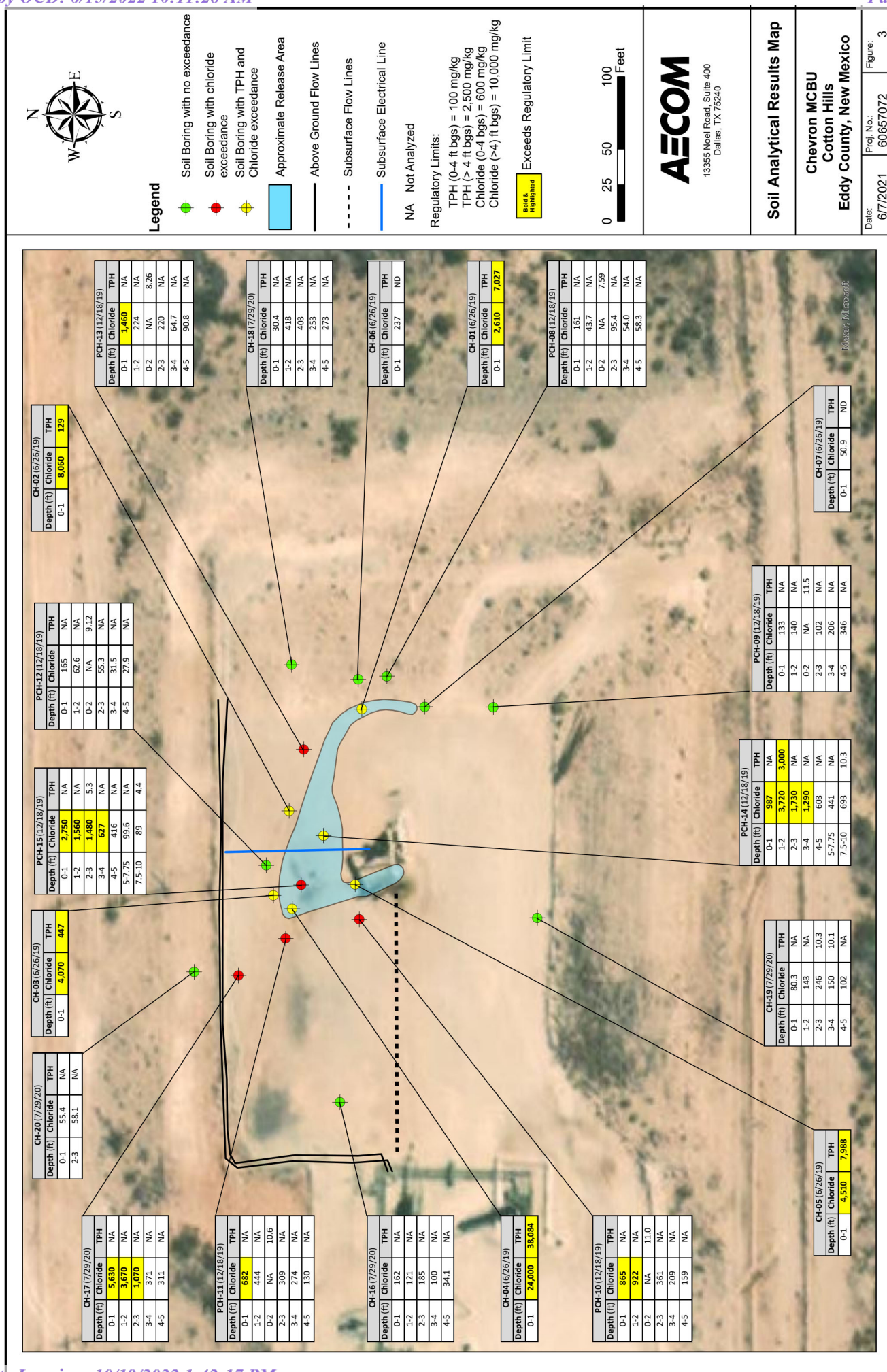
AECOM

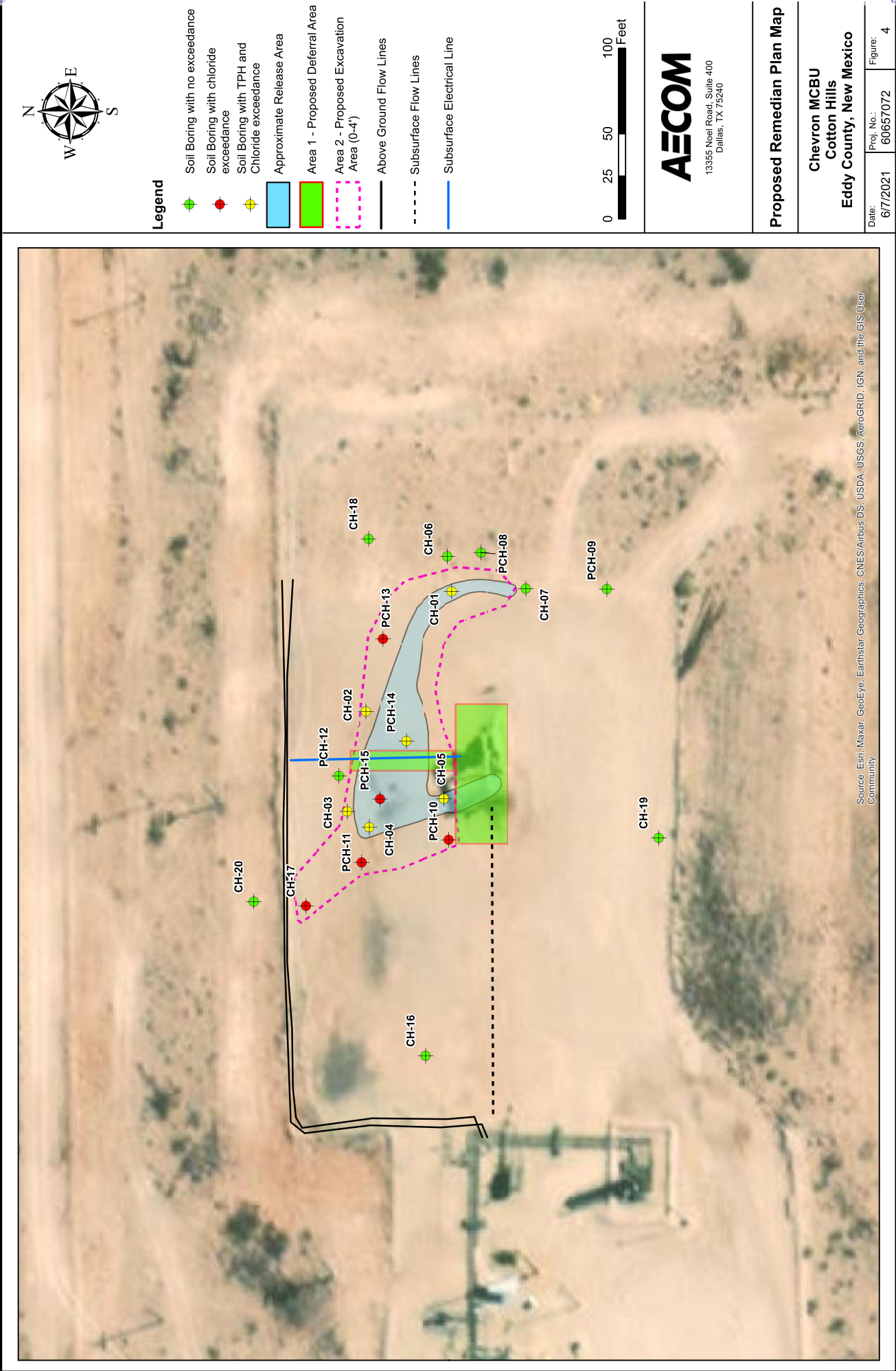
Figure 1

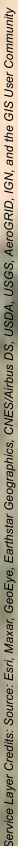
Date: June 2021

Project #: 60657072









Appendix A

C-141 Form and Project Correspondence

Wynne, Brad

From: Wynne, Brad
Sent: Monday, April 11, 2022 11:50 AM
To: Hamlet, Robert, EMNRD
Cc: Barnhill, Amy D.; Gilmore, Wally
Subject: RE: The Oil Conservation Division (OCD) has approved the Application ID: 37166 Cotton Hills - Notification of Final Sampling

Hello Mr. Hamlet,

This is a curtesy notification that the remedial excavation activities were completed at the Cotton Hills pad this past Friday. Per BLM requirements for this location, the analytical data was also provided to the BLM contact and approval was received for backfilling.

We will now begin preparing the final closure report for submission to the OCD. Please let me know if you have any questions or need anything else in the meantime.

Thank you,

Brad Wynne, PMP
Project Manager IV, Remediation Practices
M +1 214-971-1829
bradley.wynne@aecom.com

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From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, March 24, 2022 12:44 PM
To: Wynne, Brad <Bradley.Wynne@aecom.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: [EXTERNAL] RE: RE: The Oil Conservation Division (OCD) has approved the Application ID: 37166 Cotton Hills - Notification of Final Sampling

Brad,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau

EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wynne, Brad <Bradley.Wynne@aecom.com>
Sent: Thursday, March 24, 2022 9:18 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>
Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the Application ID: 37166 Cotton Hills - Notification of Final Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello Mr. Hamlet,

Further to the below email and per 19.15.29 D (1) (a), we are providing notification two business days prior to final confirmation sampling. We will likely commence sampling late Monday, March 28th or Tuesday March 29th and continue as the excavation and removal of impacted soil progresses.

Once confirmation sample results are received and confirmed below the Table 1 Closure Criteria Limits, backfilling of the excavation will commence. Photos of the completed excavation will be taken prior to backfilling.

Please let me know if you have any questions.

Thank you,

Brad Wynne, PMP
Project Manager IV, Remediation Practices
M +1 214-971-1829
bradley.wynne@aecom.com

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From: Wynne, Brad
Sent: Tuesday, March 1, 2022 9:14 AM
To: Robert.Hamlet@state.nm.us
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>
Subject: RE: The Oil Conservation Division (OCD) has approved the Application ID: 37166 Cotton Hills

Good morning Mr. Hamlet,

Further to the below approval of the remedial work plan for the Cotton Hills location, on behalf of Chevron, we would like to provide a schedule update and advance notification of the planned remedial activities. The remedial excavation work is tentatively scheduled to commence during the week starting either **March 21, 2022** and/or **March 28, 2022** pending weather.

We will provide you further notification within 2 days of commencing work and confirmation sample collection.

Please let me know if you have any questions or concerns.

Thank you,

Brad Wynne, PMP

Project Manager IV, Remediation Practices

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bradley.wynne@aecom.com

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From: Barnhill, Amy D. <ABarnhill@chevron.com>

Sent: Wednesday, October 13, 2021 11:21 AM

To: Wynne, Brad <Bradley.Wynne@aecom.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the Application ID: 37166 Cotton Hills

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, October 5, 2021 3:41 PM

To: Barnhill, Amy D. <ABarnhill@chevron.com>

Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has approved the application, Application ID: 37166

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM1936556814, with the following conditions:

- **The Workplan/Remediation Plan is approved with the following conditions: Borehole to 51' showing no groundwater allows for floor samples to be delineated/excavated to 10,000 mg/kg for chlorides, 2,500 mg/kg (GRO+DRO+MRO) or 1,000 mg/kg (GRO+DRO) for vertical delineation. Only sample points on pad that require a major facility deconstruction will be deferred. Remove contaminants safely around equipment/pipelines with a hydrovac. If you believe a certain area will require a deferral, please make sure that it has been fully delineated and specify the exact soil sample locations. The OCD needs to see that every measure has been taken to remediate the release before a deferral can be granted. After all possible contaminated soil has been removed, a formal deferral request will need to be uploaded to the OCD payment portal for review.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Wynne, Brad

From: Wynne, Brad
Sent: Friday, April 8, 2022 2:52 PM
To: Amos, James A
Cc: Barnhill, Amy D.; Gilmore, Wally; Lovely, James
Subject: RE: [EXTERNAL] Re: RE: Cotton Hills Spill 05152019 - Notification of Backfilling
Attachments: J2166-1 UDS Level 2 Report Final Report.pdf; J2171-1 UDS Level 2 Report Final Report.pdf

Importance: High

Hello Mr. Amos – see the final wall sample results attached along with one more base sample. Based on these results, the impacted soil has been removed.

If needed, we can provide a copy of the final closure report upon completion, which will also be submitted the NMOCD.

Thank you and have a great weekend!

Brad Wynne, PMP
Project Manager IV, Remediation Practices
M +1 214-971-1829
bradley.wynne@aecom.com

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13355 Noel Road, Suite 400
Dallas, TX, 75240, United States
T +1 214-741-7777
aecom.com
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From: Amos, James A <jamos@blm.gov>
Sent: Friday, April 8, 2022 11:23 AM
To: Wynne, Brad <Bradley.Wynne@aecom.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>
Subject: [EXTERNAL] Re: RE: Cotton Hills Spill 05152019 - Notification of Backfilling

Brad,

I see nothing that would keep you from proceeding with the backfill. As for the two wall samples, please provide the results of the additional excavation results as soon as available. Thanks

From: Wynne, Brad <Bradley.Wynne@aecom.com>
Sent: Thursday, April 7, 2022 3:46 AM
To: Amos, James A <jamos@blm.gov>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James

<james.lovely@aecom.com>

Subject: RE: [EXTERNAL] Re: RE: Cotton Hills Spill 05152019 - Notification of Backfilling

Good morning Mr. Amos,

Attached are the analytical reports related to the additional confirmation samples. Based on these results, the base of the eastern half of the excavation is clear and we plan to initiate backfilling of this area if acceptable to you.

For the two the wall samples **WW-2B** and **NW-2A** , which are still slightly over for chloride at **1360** and **1280** respectively, we will dig a bit more out at those locations and collect another confirmation sample.

Thank you and let me know if you have any question or concerns.

Brad Wynne, PMP

Project Manager IV, Remediation Practices

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From: Wynne, Brad

Sent: Tuesday, April 5, 2022 6:44 AM

To: Amos, James A <jamos@blm.gov>

Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>

Subject: RE: [EXTERNAL] Re: RE: Cotton Hills Spill 05152019 - Notification of Backfilling

Good morning Mr. Amos.

Attached are the additional results received yesterday for the **Eastern Half** of the excavation along with one resample of the west wall. Also attached are a few photos. Based on these results, we will be removing some additional soil today and resampling at the following sample locations (note – base samples [B-#] listed below were less than 4 ft deep):

NW-2 – 2,000 chloride

EW-1 – 1,070 chloride

B-15 – 1,260 chloride

B-16 – 1,140 chloride

B-18 – 728 chloride

B-21 – 148 TPH

B-22 – 696 chloride

B-25 – 723 chloride

WW-2A – 1020 chloride

I will send the additional confirmation sample results once received.

Thank you,

Brad Wynne, PMP

Project Manager IV, Remediation Practices

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From: Amos, James A <jamos@blm.gov>

Sent: Monday, April 4, 2022 1:52 PM

To: Wynne, Brad <Bradley.Wynne@aecom.com>

Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>

Subject: [EXTERNAL] Re: RE: Cotton Hills Spill 05152019 - Notification of Backfilling

Brad, Consider This BLM's approval to commence backfilling the western portion of the excavation. If any questions, please get back to me. Thanks

From: Wynne, Brad <Bradley.Wynne@aecom.com>

Sent: Monday, April 4, 2022 4:54 AM

To: Amos, James A <jamos@blm.gov>

Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; Lovely, James <james.lovely@aecom.com>

Subject: [EXTERNAL] RE: Cotton Hills Spill 05152019 - Notification of Backfilling

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning Mr. Amos,

As discussed, please find attached the analytical lab reports for the confirmation samples collected at the Cotton Hills site for the **western half of the excavation**. Soil was removed to meet the NM OCD Closure Criteria per the following:

- Soil from 0-4 ft depth – 600 mg/kg for chloride, 100 mg/kg TPH, 50 mg/kg Total BTEX and 10 mg/kg for Benzene
- Soil >4 ft – 10,000 mg/kg for chloride, 2,500 mg/kg for TPH, same as above for BTEX/Benzene
- Note: 'B' samples are Base samples collected just below 4 ft (depth of the excavation for most of western half)
- All other samples are wall samples collected between 0 to 4 ft (north wall (NW), west wall (WW), etc.).

For any results reported above the 0-4 ft closure criteria (i.e., WW-2 and WW-3), additional soil was removed and another confirmation sample collected and will be provided in the **additional analytical due later today along with the eastern half samples**.

Prior to initiating the soil removal, the following was confirmed/completed:

- Impacts were delineated both vertically and horizontally to 600 mg/kg for chloride, 100 mg/kg for TPH and 50/10 mg/kg for BTEX/Benzene
- Groundwater depth was confirmed by drilling to be at least >51 ft below ground surface (maximum depth drilled)
- No karst geology features or other unstable areas were identified near the site.

We are preparing to initiate backfilling on the western half ASAP since this is still an active pad, so please let me know at your earliest convenience if you have any questions or concerns.

Feel free to call me per by below cell number.

Thank you!

Brad Wynne, PMP

Project Manager IV, Remediation Practices

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From: Wynne, Brad

Sent: Thursday, March 31, 2022 6:49 PM

To: [jamos@blm.gov](mailto:amos@blm.gov)

Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>

Subject: RE: Cotton Hills Spill 05152019 - Advance Notification of Backfilling

Hello Mr. Amos – further to the below, we anticipate beginning to backfill the excavation on Monday (April 4th), pending analytical results.

Thank you,

Brad Wynne, PMP

Project Manager IV, Remediation Practices

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From: Wynne, Brad
Sent: Friday, March 25, 2022 7:02 AM
To: jamos@blm.gov
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Gilmore, Wally <Wallace.Gilmore@aecom.com>; JDXD@chevron.com
Subject: RE: Cotton Hills Spill 05152019 - Advance Notification of Backfilling

Hello Mr. Amos,

Per your below email to Chevron from the original date of this release, we are providing you notice that we will be excavating the impacted soil commencing early next week.

The area has been delineated (including to 600 mg/kg for chlorides) and a remediation plan was submitted and approved by the NM OCD. A site map of the planned excavation extents is attached. Also attached is the OCD's approval email of the remediation plan and approval to initiate the remedial excavation and confirmation sampling.

I would anticipate the backfilling will not occur until the week starting April 4th.

A copy of the remedial completion report can be provided upon completion, which will include your below information request.

Please let me know if you have any questions or need anything else at this time.

Thank you,

Brad Wynne, PMP
Project Manager IV, Remediation Practices
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bradley.wynne@aecom.com

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From: Amos, James <jamos@blm.gov>
Sent: Wednesday, May 22, 2019 10:51 AM
To: DeLeon, Josepha <JDXD@chevron.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Barringer, Andrew J <Andrew.Barringer@chevron.com>; Barnhill, Amy D. <ABarnhill@chevron.com>; Faulkner, Rick <Rick.Faulkner@chevron.com>
Subject: [**EXTERNAL**] Re: [EXTERNAL] Cotton Hills Spill 05152019

Josepha,

Thanks for the information. I will be the point of contact for this spill event. The location is in what is considered Medium Cave/Karst. The spill impacted area will need to be delineated, horizontal and vertical to 600 mg/l chlorides, and the impacted material removed and disposed of at an approved facility. Once the impact has been removed, contact myself to verify prior to backfill. Provide copy of all analyticals, etc. If any questions, please get back to me. Thanks

On Wed, May 22, 2019 at 7:45 AM DeLeon, Josepha <JDXD@chevron.com> wrote:

Attached is C-141 for spill that occurred at Cotton Hills on May 15, 2019.

*Josie DeLeon, HES Specialist -
Compliance Support - Environmental*

Chevron - MCBU
(Carlsbad, Hobbs, Eunice, Vacuum, Buckeye Gas Plant)
1616 W. Bender Blvd.
Hobbs, NM 88240
575-263-0424
432-425-1528 - cell
jdx@chevron.com

--

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov

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	NRM1936556814
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

VCDEV-191107-C-1410

Responsible Party: Chevron	OGRID: 4323
Contact Name: Josepha DeLeon	Contact Telephone: 575-263-0424
Contact email: jdx@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 1616 E. Bender Blvd., Hobbs, NM	

Location of Release Source

Latitude 32.0345573 Longitude -104.1587753
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Cotton Hills 23 26 27 Fed Com #001H	Site Type: Gas
Date Release Discovered: 10/22/2019	API# (if applicable): 30-015-41535

Unit Letter	Section	Township	Range	County
B	23	26S	27E	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): 0.62 barrels	Volume Recovered (bbls): 0.5 barrels
☒ Produced Water	Volume Released (bbls): 18.01 barrels	Volume Recovered (bbls): 10.5 barrels
	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:

Stuffing box failure. Spill to land.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Signature: 	Date: November 4, 2019
Printed Name: <u>Josepha Deleon</u>	Title: <u>Environmental Compliance Specialist</u>
email: <u>jdx@chevron.com</u>	Telephone: <u>575-263-0424</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>12/31/2019</u>

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Incident Date			10/22/2019		
Incident Time			Start Time	End Time	
			12:00pm	5:00pm	
Location			Cotton Hills 23-26-27 #1		
Area	Standing Liquid	In Soil	size	Oil Volume	Water Volume
1	0.0208	0.68	21.0417 X 58	0	2.9
2	0.0833	0	36 x 3.0417	0.62	1
3	0.0521	3.39	(3.14)22^2	0	14.11
4					
5					
Total Fluid				0.62	18.01
Fluid Recovered			Oil Volume	Water Volume	
			.5 Barrels	10.5 Barrel	

Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
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Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
Facility ID	
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State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	



Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

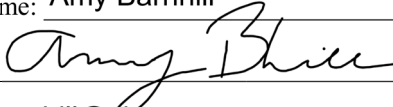
Page 5

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

Printed Name: Amy Barnhill

Title: Water Specialist

Signature: 

Date: 7-9-2021

email: ABarnhill@chevron.com

Telephone: 432-687-7108

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Remediation Plan

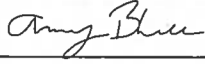
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist - Water
Signature:  Date: 6-10-2022
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Closure

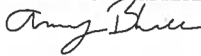
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Amy Barnhill Title: Lead Env. Specialist-Water

Signature:  Date: 6-10-2022

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2149-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
3/30/2022 3:42:31 PM

John Builes, Project Manager
(561)558-4549
john.builes@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 890-2149-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Job ID: 890-2149-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2149-1

Receipt

The samples were received on 3/29/2022 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 5.8°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Client Sample ID: B-1

Lab Sample ID: 890-2149-1

Date Collected: 03/29/22 10:20

Matrix: Solid

Date Received: 03/29/22 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/30/22 08:30	03/30/22 13:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/22 08:30	03/30/22 13:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/22 08:30	03/30/22 13:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/30/22 08:30	03/30/22 13:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/22 08:30	03/30/22 13:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/30/22 08:30	03/30/22 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/30/22 08:30	03/30/22 13:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/30/22 08:30	03/30/22 13:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/30/22 15:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/30/22 15:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 12:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/30/22 10:05	03/30/22 12:59	1
o-Terphenyl	110		70 - 130	03/30/22 10:05	03/30/22 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		5.00	mg/Kg			03/30/22 14:58	1

Client Sample ID: WW-1

Lab Sample ID: 890-2149-2

Date Collected: 03/29/22 10:22

Matrix: Solid

Date Received: 03/29/22 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/30/22 08:30	03/30/22 14:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/30/22 08:30	03/30/22 14:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/30/22 08:30	03/30/22 14:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/30/22 08:30	03/30/22 14:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/30/22 08:30	03/30/22 14:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/30/22 08:30	03/30/22 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/30/22 08:30	03/30/22 14:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/30/22 08:30	03/30/22 14:04	1

Eurofins Carlsbad

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Client Sample ID: WW-1

Lab Sample ID: 890-2149-2

Date Collected: 03/29/22 10:22

Matrix: Solid

Date Received: 03/29/22 13:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/30/22 15:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/30/22 15:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 13:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 13:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			03/30/22 10:05	03/30/22 13:20	1
o-Terphenyl	116		70 - 130			03/30/22 10:05	03/30/22 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		5.00	mg/Kg			03/30/22 15:25	1

Client Sample ID: NW-1

Lab Sample ID: 890-2149-3

Date Collected: 03/29/22 10:24

Matrix: Solid

Date Received: 03/29/22 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/30/22 08:30	03/30/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/30/22 08:30	03/30/22 14:24	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/30/22 08:30	03/30/22 14:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/30/22 15:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/30/22 15:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 13:41	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Client Sample ID: NW-1

Lab Sample ID: 890-2149-3

Date Collected: 03/29/22 10:24

Matrix: Solid

Date Received: 03/29/22 13:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	03/30/22 10:05	03/30/22 13:41	1
o-Terphenyl	119		70 - 130	03/30/22 10:05	03/30/22 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.99	mg/Kg			03/30/22 15:33	1

Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2149-1	B-1	105	108
890-2149-2	WW-1	107	109
890-2149-3	NW-1	109	110
LCS 880-22558/1-A	Lab Control Sample	99	110
LCSD 880-22558/2-A	Lab Control Sample Dup	101	111
MB 880-22602/9	Method Blank	103	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2149-1	B-1	109	110
890-2149-2	WW-1	116	116
890-2149-3	NW-1	121	119
LCS 880-22621/2-A	Lab Control Sample	99	90
LCSD 880-22621/3-A	Lab Control Sample Dup	107	96
MB 880-22621/1-A	Method Blank	144 S1+	155 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-22558/1-A

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09294		mg/Kg		93	70 - 130
Toluene	0.100	0.09299		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09259		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09258		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-22558/2-A

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22558

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09333		mg/Kg		93	70 - 130	0	35
Toluene	0.100	0.09263		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.09429		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09507		mg/Kg		95	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-22602/9

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/30/22 10:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/30/22 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/30/22 10:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/30/22 10:59	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

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

Lab Sample ID: MB 880-22621/1-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22621

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			03/30/22 10:05	03/30/22 10:35	1
o-Terphenyl	155	S1+	70 - 130			03/30/22 10:05	03/30/22 10:35	1

Lab Sample ID: LCS 880-22621/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	807.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	810.5		mg/Kg		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	90		70 - 130				

Lab Sample ID: LCSD 880-22621/3-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	834.6		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	874.6		mg/Kg		87	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	96		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22649/1-A

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/30/22 14:31	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22649/2-A

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	246.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-22649/3-A

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	247.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-2149-1 MS

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: B-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	136		250	398.0		mg/Kg		105	90 - 110		

Lab Sample ID: 890-2149-1 MSD

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: B-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	136		250	394.3		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

GC VOA

Prep Batch: 22558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	5035	
890-2149-2	WW-1	Total/NA	Solid	5035	
890-2149-3	NW-1	Total/NA	Solid	5035	
LCS 880-22558/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22558/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 22602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	8021B	22558
890-2149-2	WW-1	Total/NA	Solid	8021B	22558
890-2149-3	NW-1	Total/NA	Solid	8021B	22558
MB 880-22602/9	Method Blank	Total/NA	Solid	8021B	
LCS 880-22558/1-A	Lab Control Sample	Total/NA	Solid	8021B	22558
LCSD 880-22558/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22558

Analysis Batch: 22671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	Total BTEX	
890-2149-2	WW-1	Total/NA	Solid	Total BTEX	
890-2149-3	NW-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	8015B NM	22621
890-2149-2	WW-1	Total/NA	Solid	8015B NM	22621
890-2149-3	NW-1	Total/NA	Solid	8015B NM	22621
MB 880-22621/1-A	Method Blank	Total/NA	Solid	8015B NM	22621
LCS 880-22621/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22621
LCSD 880-22621/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22621

Prep Batch: 22621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	8015NM Prep	
890-2149-2	WW-1	Total/NA	Solid	8015NM Prep	
890-2149-3	NW-1	Total/NA	Solid	8015NM Prep	
MB 880-22621/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22621/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22621/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Total/NA	Solid	8015 NM	
890-2149-2	WW-1	Total/NA	Solid	8015 NM	
890-2149-3	NW-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Soluble	Solid	DI Leach	

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

HPLC/IC (Continued)

Leach Batch: 22649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-2	WW-1	Soluble	Solid	DI Leach	
890-2149-3	NW-1	Soluble	Solid	DI Leach	
MB 880-22649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2149-1 MS	B-1	Soluble	Solid	DI Leach	
890-2149-1 MSD	B-1	Soluble	Solid	DI Leach	

Analysis Batch: 22650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2149-1	B-1	Soluble	Solid	300.0	22649
890-2149-2	WW-1	Soluble	Solid	300.0	22649
890-2149-3	NW-1	Soluble	Solid	300.0	22649
MB 880-22649/1-A	Method Blank	Soluble	Solid	300.0	22649
LCS 880-22649/2-A	Lab Control Sample	Soluble	Solid	300.0	22649
LCSD 880-22649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22649
890-2149-1 MS	B-1	Soluble	Solid	300.0	22649
890-2149-1 MSD	B-1	Soluble	Solid	300.0	22649

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Client Sample ID: B-1

Lab Sample ID: 890-2149-1

Date Collected: 03/29/22 10:20

Matrix: Solid

Date Received: 03/29/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22558	03/30/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22602	03/30/22 13:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22671	03/30/22 15:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22664	03/30/22 15:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22621	03/30/22 10:05	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22606	03/30/22 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22649	03/30/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			22650	03/30/22 14:58	SC	XEN MID

Client Sample ID: WW-1

Lab Sample ID: 890-2149-2

Date Collected: 03/29/22 10:22

Matrix: Solid

Date Received: 03/29/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22558	03/30/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22602	03/30/22 14:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22671	03/30/22 15:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22664	03/30/22 15:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22621	03/30/22 10:05	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22606	03/30/22 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22649	03/30/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			22650	03/30/22 15:25	SC	XEN MID

Client Sample ID: NW-1

Lab Sample ID: 890-2149-3

Date Collected: 03/29/22 10:24

Matrix: Solid

Date Received: 03/29/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	22558	03/30/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22602	03/30/22 14:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22671	03/30/22 15:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22664	03/30/22 15:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22621	03/30/22 10:05	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22606	03/30/22 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22649	03/30/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			22650	03/30/22 15:33	SC	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

1
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Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2149-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2149-1	B-1	Solid	03/29/22 10:20	03/29/22 13:00
890-2149-2	WW-1	Solid	03/29/22 10:22	03/29/22 13:00
890-2149-3	NW-1	Solid	03/29/22 10:24	03/29/22 13:00

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- 12
- 13
- 14



Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testings America

[illegible]

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2149-1

SDG Number: 60657072

Login Number: 2149

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2149-1

SDG Number: 60657072

Login Number: 2149

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 03/30/22 11:54 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2150-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", positioned above a horizontal line.

Authorized for release by:
3/30/2022 3:42:31 PM

John Builes, Project Manager
(561)558-4549
john.builes@eurofinset.com

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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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 890-2150-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Job ID: 890-2150-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-2150-1

Receipt
The samples were received on 3/29/2022 1:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

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

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

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Client Sample ID: BFM-1

Lab Sample ID: 890-2150-1

Date Collected: 03/28/22 15:00

Matrix: Solid

Date Received: 03/29/22 13:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 13:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 13:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 13:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/30/22 08:30	03/30/22 13:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/30/22 08:30	03/30/22 13:03	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/30/22 08:30	03/30/22 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/30/22 08:30	03/30/22 13:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/30/22 08:30	03/30/22 13:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/30/22 15:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/30/22 15:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/30/22 10:05	03/30/22 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	03/30/22 10:05	03/30/22 14:02	1
o-Terphenyl	117		70 - 130	03/30/22 10:05	03/30/22 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.95	mg/Kg			03/30/22 15:42	1

Client Sample ID: BFM-2

Lab Sample ID: 890-2150-2

Date Collected: 03/28/22 15:00

Matrix: Solid

Date Received: 03/29/22 13:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/30/22 08:30	03/30/22 13:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/30/22 08:30	03/30/22 13:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/30/22 08:30	03/30/22 13:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/30/22 08:30	03/30/22 13:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/30/22 08:30	03/30/22 13:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/30/22 08:30	03/30/22 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/30/22 08:30	03/30/22 13:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/30/22 08:30	03/30/22 13:23	1

Eurofins Carlsbad

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Client Sample ID: BFM-2

Lab Sample ID: 890-2150-2

Date Collected: 03/28/22 15:00

Matrix: Solid

Date Received: 03/29/22 13:39

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			03/30/22 15:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/30/22 15:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 14:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 14:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/30/22 10:05	03/30/22 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			03/30/22 10:05	03/30/22 14:23	1
o-Terphenyl	119		70 - 130			03/30/22 10:05	03/30/22 14:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.98	mg/Kg			03/30/22 15:51	1

Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2150-1	BFM-1	108	100
890-2150-2	BFM-2	108	110
LCS 880-22558/1-A	Lab Control Sample	99	110
LCSD 880-22558/2-A	Lab Control Sample Dup	101	111
MB 880-22602/9	Method Blank	103	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2150-1	BFM-1	117	117
890-2150-2	BFM-2	118	119
LCS 880-22621/2-A	Lab Control Sample	99	90
LCSD 880-22621/3-A	Lab Control Sample Dup	107	96
MB 880-22621/1-A	Method Blank	144 S1+	155 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-22558/1-A

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09294		mg/Kg		93	70 - 130
Toluene	0.100	0.09299		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09259		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09258		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-22558/2-A

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22558

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09333		mg/Kg		93	70 - 130	0	35
Toluene	0.100	0.09263		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.09429		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09507		mg/Kg		95	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-22602/9

Matrix: Solid

Analysis Batch: 22602

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/30/22 10:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/30/22 10:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/30/22 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/30/22 10:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/30/22 10:59	1

Eurofins Carlsbad

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

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

Lab Sample ID: MB 880-22621/1-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22621

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/30/22 10:05	03/30/22 10:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			03/30/22 10:05	03/30/22 10:35	1
o-Terphenyl	155	S1+	70 - 130			03/30/22 10:05	03/30/22 10:35	1

Lab Sample ID: LCS 880-22621/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	807.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	810.5		mg/Kg		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	90		70 - 130				

Lab Sample ID: LCSD 880-22621/3-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	834.6		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	874.6		mg/Kg		87	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	96		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22649/1-A

Matrix: Solid

Analysis Batch: 22650

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/30/22 14:31	1

Eurofins Carlsbad

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22649/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 22650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-22649/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 22650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

GC VOA

Prep Batch: 22558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	5035	
890-2150-2	BFM-2	Total/NA	Solid	5035	
LCS 880-22558/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22558/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 22602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	8021B	22558
890-2150-2	BFM-2	Total/NA	Solid	8021B	22558
MB 880-22602/9	Method Blank	Total/NA	Solid	8021B	
LCS 880-22558/1-A	Lab Control Sample	Total/NA	Solid	8021B	22558
LCSD 880-22558/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22558

Analysis Batch: 22670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	Total BTEX	
890-2150-2	BFM-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	8015B NM	22621
890-2150-2	BFM-2	Total/NA	Solid	8015B NM	22621
MB 880-22621/1-A	Method Blank	Total/NA	Solid	8015B NM	22621
LCS 880-22621/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22621
LCSD 880-22621/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22621

Prep Batch: 22621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	8015NM Prep	
890-2150-2	BFM-2	Total/NA	Solid	8015NM Prep	
MB 880-22621/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22621/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22621/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Total/NA	Solid	8015 NM	
890-2150-2	BFM-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Soluble	Solid	DI Leach	
890-2150-2	BFM-2	Soluble	Solid	DI Leach	
MB 880-22649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

HPLC/IC

Analysis Batch: 22650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2150-1	BFM-1	Soluble	Solid	300.0	22649
890-2150-2	BFM-2	Soluble	Solid	300.0	22649
MB 880-22649/1-A	Method Blank	Soluble	Solid	300.0	22649
LCS 880-22649/2-A	Lab Control Sample	Soluble	Solid	300.0	22649
LCSD 880-22649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22649

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Client Sample ID: BFM-1

Lab Sample ID: 890-2150-1

Date Collected: 03/28/22 15:00

Matrix: Solid

Date Received: 03/29/22 13:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	22558	03/30/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22602	03/30/22 13:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22670	03/30/22 15:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22665	03/30/22 15:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22621	03/30/22 10:05	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22606	03/30/22 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22649	03/30/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			22650	03/30/22 15:42	SC	XEN MID

Client Sample ID: BFM-2

Lab Sample ID: 890-2150-2

Date Collected: 03/28/22 15:00

Matrix: Solid

Date Received: 03/29/22 13:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22558	03/30/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22602	03/30/22 13:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22670	03/30/22 15:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22665	03/30/22 15:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22621	03/30/22 10:05	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22606	03/30/22 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22649	03/30/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			22650	03/30/22 15:51	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2150-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2150-1	BFM-1	Solid	03/28/22 15:00	03/29/22 13:39
890-2150-2	BFM-2	Solid	03/28/22 15:00	03/29/22 13:39

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



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3190

Chain of Custody

Work Order No: _____

Page 1 of 1
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Project Manager:	Bred Wynne, Wally Gilmore		Bill to: (if different)
Company Name:	AECOM		Company Name:
Address:	13355 Noel Rd. Suite 400		Address:
City, State ZIP:	Dallas, TX 75240	City, State ZIP:	Wallace. Gilmore @ AECOM
Phone:	214-741-7777	Email:	Bredlay, wyne @ AECOM.com

Work Order Comments				
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	Adapt ☐	Other:	

[illegible]

Total 2000.7 / 6010	2008.6 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ , Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TC1P / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

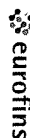
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company, to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3-29-22 3:29 PM			3/29/22

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone. 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)						Sampler
Client Contact:						Lab PM
Shipping/Receiving						Bulles, John
Company:						E-Mail
Eurofins Environment Testing South Cent						john.bulles@eurofinset.com
Address						Accreditations Required (See note):
1211 W Florida Ave						NELAP - Texas
City						State of Origin:
Midland						New Mexico
State Zip						Job #:
TX, 79701						890-2150-1
Phone:						COC No:
432-704-5440(Tel)						890-691 1
Email						Page:
Project Name:						Page 1 of 1
Cotton Hills						
Site:						
SSOW#						
Project #:						
88000565						
Sample Identification - Client ID (Lab ID)						
BFM-1 (890-2150-1)						
BFM-2 (890-2150-2)						
Sample Date						
3/28/22						
Sample Time						
15 00						
Mountain						
Solid						
Matrix						
(W=water S=solid O=wasteoil, BT=THSR, A=APP)						
Preservation Code:						
Field Filtered Sample (Yes or No)						
Perform MS/MSD (Yes or No)						
8021B/5035FP_Calc (MOD) BTEX						
300_ORGFM_28D/DI_LEACH Chloride						
8015MOD_NM/8015NM_S_Prep (MOD) Full TPH						
Total_BTEX_GCV/ Total BTEX Calculation						
8015MOD_Calc/ Diesel Range Organics (DRO) (GC)						
Total Number of containers						
Special Instructions/Note:						
A HCL M - Hexane						
B NaOH N None						
C - Zn Acetate O - AsNaO2						
D Nitric Acid P Na2O4S						
E - NaHSO4 Q - Na2SO3						
F MeOH R Na2SO3						
G Amchlor S H2SO4						
H Ascorbic Acid T - TSP Dodecylpyrate						
I Ice U - Acetone						
J DI Water V - MCMA						
K EDTA W pH 4.5						
L - EDA Z - other (specify)						
Other						

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2150-1

SDG Number: 60657072

Login Number: 2150

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2150-1

SDG Number: 60657072

Login Number: 2150

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 03/30/22 11:54 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2151-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
3/31/2022 7:04:54 PM

John Builes, Project Manager
(561)558-4549
john.builes@eurofinset.com

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results through
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www.eurofinsus.com/Env

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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 890-2151-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Job ID: 890-2151-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2151-1

Receipt

The samples were received on 3/30/2022 1:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-5 (890-2151-5), B-6 (890-2151-6), (LCS 880-22691/2-A), (LCSD 880-22691/3-A) and (MB 880-22691/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Client Sample ID: B-2

Lab Sample ID: 890-2151-1

Date Collected: 03/29/22 14:55

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.5		49.8	mg/Kg			03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/31/22 08:52	03/31/22 13:20	1
Diesel Range Organics (Over C10-C28)	85.5		49.8	mg/Kg		03/31/22 08:52	03/31/22 13:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/31/22 08:52	03/31/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			03/31/22 08:52	03/31/22 13:20	1
o-Terphenyl	104		70 - 130			03/31/22 08:52	03/31/22 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		24.8	mg/Kg			03/31/22 13:57	5

Client Sample ID: B-3

Lab Sample ID: 890-2151-2

Date Collected: 03/29/22 15:00

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/31/22 08:52	03/31/22 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/31/22 08:52	03/31/22 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/31/22 08:52	03/31/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			03/31/22 08:52	03/31/22 13:41	1
o-Terphenyl	101		70 - 130			03/31/22 08:52	03/31/22 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		4.98	mg/Kg			03/31/22 14:23	1

Client Sample ID: B-4

Lab Sample ID: 890-2151-3

Date Collected: 03/29/22 15:05

Matrix: Solid

Date Received: 03/30/22 13:01

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/31/22 11:00	03/31/22 13:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/31/22 11:00	03/31/22 13:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/31/22 11:00	03/31/22 13:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/31/22 11:00	03/31/22 13:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/31/22 11:00	03/31/22 13:31	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Client Sample ID: B-4

Lab Sample ID: 890-2151-3

Date Collected: 03/29/22 15:05

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	-	03/31/22 11:00	03/31/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/31/22 11:00	03/31/22 13:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/31/22 11:00	03/31/22 13:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	-		03/31/22 14:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg	-		03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	-	03/31/22 08:52	03/31/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	-	03/31/22 08:52	03/31/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	-	03/31/22 08:52	03/31/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/31/22 08:52	03/31/22 14:02	1
o-Terphenyl	117		70 - 130			03/31/22 08:52	03/31/22 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		5.00	mg/Kg	-		03/31/22 14:32	1

Client Sample ID: WW-2

Lab Sample ID: 890-2151-4

Date Collected: 03/30/22 09:30

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	-		03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	-	03/31/22 08:52	03/31/22 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	03/31/22 08:52	03/31/22 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	03/31/22 08:52	03/31/22 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/31/22 08:52	03/31/22 14:23	1
o-Terphenyl	119		70 - 130			03/31/22 08:52	03/31/22 14:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		24.9	mg/Kg	-		03/31/22 14:41	5

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Client Sample ID: B-5

Lab Sample ID: 890-2151-5

Date Collected: 03/30/22 09:35

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/31/22 08:52	03/31/22 14:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/31/22 08:52	03/31/22 14:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/31/22 08:52	03/31/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/31/22 08:52	03/31/22 14:45	1
o-Terphenyl	137	S1+	70 - 130			03/31/22 08:52	03/31/22 14:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		24.8	mg/Kg			03/31/22 14:50	5

Client Sample ID: B-6

Lab Sample ID: 890-2151-6

Date Collected: 03/30/22 09:40

Matrix: Solid

Date Received: 03/30/22 13:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/31/22 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/31/22 08:52	03/31/22 15:06	1
o-Terphenyl	136	S1+	70 - 130			03/31/22 08:52	03/31/22 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		24.8	mg/Kg			03/31/22 15:16	5

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Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2151-3	B-4	106	108
LCS 880-22613/1-A	Lab Control Sample	102	112
LCSD 880-22613/2-A	Lab Control Sample Dup	106	113
MB 880-22613/5-A	Method Blank	104	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2151-1	B-2	95	104
890-2151-2	B-3	88	101
890-2151-3	B-4	103	117
890-2151-4	WW-2	101	119
890-2151-5	B-5	113	137 S1+
890-2151-6	B-6	111	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-22691/2-A	Lab Control Sample	110	133 S1+
LCSD 880-22691/3-A	Lab Control Sample Dup	113	140 S1+
MB 880-22691/1-A	Method Blank	112	138 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22613/5-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22613

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/31/22 07:30	03/31/22 10:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/31/22 07:30	03/31/22 10:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/31/22 07:30	03/31/22 10:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/31/22 07:30	03/31/22 10:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/31/22 07:30	03/31/22 10:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/31/22 07:30	03/31/22 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/31/22 07:30	03/31/22 10:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/31/22 07:30	03/31/22 10:26	1

Lab Sample ID: LCS 880-22613/1-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1005		mg/Kg		101	70 - 130
Toluene	0.100	0.09948		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-22613/2-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09921		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.09749		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130	0	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

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

Lab Sample ID: MB 880-22691/1-A

Matrix: Solid

Analysis Batch: 22685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22691

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 10:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 10:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/22 08:52	03/31/22 10:33	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			03/31/22 08:52	03/31/22 10:33	1
o-Terphenyl	138	S1+	70 - 130			03/31/22 08:52	03/31/22 10:33	1

Lab Sample ID: LCS 880-22691/2-A

Matrix: Solid

Analysis Batch: 22685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	913.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1090		mg/Kg		109	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	133	S1+	70 - 130				

Lab Sample ID: LCSD 880-22691/3-A

Matrix: Solid

Analysis Batch: 22685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22691

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	883.4		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1101		mg/Kg		110	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	140	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22722/1-A

Matrix: Solid

Analysis Batch: 22730

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/31/22 13:02	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22722/2-A

Matrix: Solid

Analysis Batch: 22730

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22722/3-A

Matrix: Solid

Analysis Batch: 22730

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2151-1 MS

Matrix: Solid

Analysis Batch: 22730

Client Sample ID: B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2100		1240	3212		mg/Kg		90	90 - 110

Lab Sample ID: 890-2151-1 MSD

Matrix: Solid

Analysis Batch: 22730

Client Sample ID: B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2100		1240	3223		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

GC VOA

Prep Batch: 22613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-3	B-4	Total/NA	Solid	5035	
MB 880-22613/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22613/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22613/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 22684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-3	B-4	Total/NA	Solid	8021B	22613
MB 880-22613/5-A	Method Blank	Total/NA	Solid	8021B	22613
LCS 880-22613/1-A	Lab Control Sample	Total/NA	Solid	8021B	22613
LCSD 880-22613/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22613

Analysis Batch: 22739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-3	B-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-1	B-2	Total/NA	Solid	8015B NM	22691
890-2151-2	B-3	Total/NA	Solid	8015B NM	22691
890-2151-3	B-4	Total/NA	Solid	8015B NM	22691
890-2151-4	WW-2	Total/NA	Solid	8015B NM	22691
890-2151-5	B-5	Total/NA	Solid	8015B NM	22691
890-2151-6	B-6	Total/NA	Solid	8015B NM	22691
MB 880-22691/1-A	Method Blank	Total/NA	Solid	8015B NM	22691
LCS 880-22691/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22691
LCSD 880-22691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22691

Prep Batch: 22691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-1	B-2	Total/NA	Solid	8015NM Prep	
890-2151-2	B-3	Total/NA	Solid	8015NM Prep	
890-2151-3	B-4	Total/NA	Solid	8015NM Prep	
890-2151-4	WW-2	Total/NA	Solid	8015NM Prep	
890-2151-5	B-5	Total/NA	Solid	8015NM Prep	
890-2151-6	B-6	Total/NA	Solid	8015NM Prep	
MB 880-22691/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22691/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-1	B-2	Total/NA	Solid	8015 NM	
890-2151-2	B-3	Total/NA	Solid	8015 NM	
890-2151-3	B-4	Total/NA	Solid	8015 NM	
890-2151-4	WW-2	Total/NA	Solid	8015 NM	
890-2151-5	B-5	Total/NA	Solid	8015 NM	
890-2151-6	B-6	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

HPLC/IC

Leach Batch: 22722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-1	B-2	Soluble	Solid	DI Leach	
890-2151-2	B-3	Soluble	Solid	DI Leach	
890-2151-3	B-4	Soluble	Solid	DI Leach	
890-2151-4	WW-2	Soluble	Solid	DI Leach	
890-2151-5	B-5	Soluble	Solid	DI Leach	
890-2151-6	B-6	Soluble	Solid	DI Leach	
MB 880-22722/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2151-1 MS	B-2	Soluble	Solid	DI Leach	
890-2151-1 MSD	B-2	Soluble	Solid	DI Leach	

Analysis Batch: 22730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2151-1	B-2	Soluble	Solid	300.0	22722
890-2151-2	B-3	Soluble	Solid	300.0	22722
890-2151-3	B-4	Soluble	Solid	300.0	22722
890-2151-4	WW-2	Soluble	Solid	300.0	22722
890-2151-5	B-5	Soluble	Solid	300.0	22722
890-2151-6	B-6	Soluble	Solid	300.0	22722
MB 880-22722/1-A	Method Blank	Soluble	Solid	300.0	22722
LCS 880-22722/2-A	Lab Control Sample	Soluble	Solid	300.0	22722
LCSD 880-22722/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22722
890-2151-1 MS	B-2	Soluble	Solid	300.0	22722
890-2151-1 MSD	B-2	Soluble	Solid	300.0	22722

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Client Sample ID: B-2

Date Collected: 03/29/22 14:55

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		5			22730	03/31/22 13:57	SC	XEN MID

Client Sample ID: B-3

Date Collected: 03/29/22 15:00

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		1			22730	03/31/22 14:23	SC	XEN MID

Client Sample ID: B-4

Date Collected: 03/29/22 15:05

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	22613	03/31/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22684	03/31/22 13:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22739	03/31/22 14:54	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		1			22730	03/31/22 14:32	SC	XEN MID

Client Sample ID: WW-2

Date Collected: 03/30/22 09:30

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		5			22730	03/31/22 14:41	SC	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Client Sample ID: B-5

Date Collected: 03/30/22 09:35

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		5			22730	03/31/22 14:50	SC	XEN MID

Client Sample ID: B-6

Date Collected: 03/30/22 09:40

Date Received: 03/30/22 13:01

Lab Sample ID: 890-2151-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22745	03/31/22 15:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22691	03/31/22 08:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22685	03/31/22 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22722	03/31/22 11:27	CH	XEN MID
Soluble	Analysis	300.0		5			22730	03/31/22 15:16	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2151-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2151-1	B-2	Solid	03/29/22 14:55	03/30/22 13:01
890-2151-2	B-3	Solid	03/29/22 15:00	03/30/22 13:01
890-2151-3	B-4	Solid	03/29/22 15:05	03/30/22 13:01
890-2151-4	WW-2	Solid	03/30/22 09:30	03/30/22 13:01
890-2151-5	B-5	Solid	03/30/22 09:35	03/30/22 13:01
890-2151-6	B-6	Solid	03/30/22 09:40	03/30/22 13:01

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- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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CIP-Cooling In Process

Project Manager:	Brad Wyne, Wally Gilman	Bill to: (if different)	
Company Name:	AECOM	Company Name:	
Address:	13355 Noel Rd. Suite 400	Address:	
City/State/ZIP:	Dallas, TX 75240	City/State/ZIP:	Wallace, Gilman @ AECOM.com
Phone:	214-741-7777	Email:	Bradley.Wyne@AECOM.com

Project Name:	Cotton Hills	Turn Around		Pres. Code	
Project Number:	60657072	☐ Routine ☒ Rush			
Project Location:	Carlsbad, NM	Due Date:	ASAP		
Sampler's Name:	James Loveley	TAT starts the day received by the lab, if received by 4:30pm			
PO #:	60657072	Temp Blank:	Yes/No	Wet Ice:	Yes/No
SAMPLE RECEIPT		Samples Received Intact:	Yes/No	Thermometer ID:	FEV-1001
Cooler Custody Seals:	Yes/No	Correction Factor:			
Sample Custody Seals:	Yes/No	Temperature Reading:			
Total Containers:		Corrected Temperature:	7.0		



890-2151 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	8015M	Chlorides	EPA 300	BTEX	8021B
B-2	Soil	3/29/22	1455	-	C	1	X	X				
B-3	Soil	3/29/22	1500	-	C	1	X	X				
B-4	Soil	3/29/22	1505	-	C	1	X	X				
Ww-2	Soil	3/30/22	0930	-	C	1	X	X				
B-5	Soil	3/30/22	0935	-	C	1	X	X				
B-6	Soil	3/30/22	0940	-	C	1	X	X				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2151-1

SDG Number: 60657072

Login Number: 2151

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2151-1

SDG Number: 60657072

Login Number: 2151**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 03/31/22 11:02 AM**

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2154-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/1/2022 6:12:36 PM

John Builes, Project Manager
(561)558-4549
john.builes@eurofinset.com

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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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 890-2154-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Job ID: 890-2154-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2154-1****Receipt**

The samples were received on 3/31/2022 1:02 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

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-10 (890-2154-6) and (MB 880-22769/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-22768/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-7

Lab Sample ID: 890-2154-1

Date Collected: 03/30/22 16:00

Matrix: Solid

Date Received: 03/31/22 13:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 11:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/01/22 07:45	04/01/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 11:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/01/22 07:45	04/01/22 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/01/22 07:45	04/01/22 11:40	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/01/22 07:45	04/01/22 11:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/01/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 12:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 12:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			04/01/22 08:39	04/01/22 12:48	1
o-Terphenyl	110		70 - 130			04/01/22 08:39	04/01/22 12:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617		5.04	mg/Kg			04/01/22 16:29	1

Client Sample ID: B-8

Lab Sample ID: 890-2154-2

Date Collected: 03/30/22 16:05

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			04/01/22 08:39	04/01/22 13:09	1

Eurofins Carlsbad

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-8

Lab Sample ID: 890-2154-2

Date Collected: 03/30/22 16:05

Matrix: Solid

Date Received: 03/31/22 13:02

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	104		70 - 130	04/01/22 08:39	04/01/22 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		4.98	mg/Kg			04/01/22 16:56	1

Client Sample ID: B-9

Lab Sample ID: 890-2154-3

Date Collected: 03/30/22 16:10

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/01/22 08:39	04/01/22 13:31	1
<i>o</i> -Terphenyl	106		70 - 130	04/01/22 08:39	04/01/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		4.97	mg/Kg			04/01/22 17:05	1

Client Sample ID: WW-3

Lab Sample ID: 890-2154-4

Date Collected: 03/30/22 16:20

Matrix: Solid

Date Received: 03/31/22 13:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/01/22 07:45	04/01/22 12:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:00	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/01/22 07:45	04/01/22 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/01/22 07:45	04/01/22 12:00	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/01/22 07:45	04/01/22 12:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			04/01/22 14:51	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: WW-3

Lab Sample ID: 890-2154-4

Date Collected: 03/30/22 16:20

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 08:39	04/01/22 13:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 08:39	04/01/22 13:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 08:39	04/01/22 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			04/01/22 08:39	04/01/22 13:52	1
o-Terphenyl	105		70 - 130			04/01/22 08:39	04/01/22 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8480		99.0	mg/Kg			04/01/22 17:49	20

Client Sample ID: SW-1

Lab Sample ID: 890-2154-5

Date Collected: 03/31/22 09:30

Matrix: Solid

Date Received: 03/31/22 13:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/01/22 07:45	04/01/22 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			04/01/22 07:45	04/01/22 12:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130			04/01/22 07:45	04/01/22 12:21	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			04/01/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 08:43	04/01/22 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 08:43	04/01/22 12:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 08:43	04/01/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			04/01/22 08:43	04/01/22 12:48	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: SW-1

Lab Sample ID: 890-2154-5

Date Collected: 03/31/22 09:30

Matrix: Solid

Date Received: 03/31/22 13:02

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		70 - 130	04/01/22 08:43	04/01/22 12:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		4.95	mg/Kg			04/01/22 17:22	1

Client Sample ID: B-10

Lab Sample ID: 890-2154-6

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 03/31/22 13:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/01/22 07:45	04/01/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/01/22 07:45	04/01/22 12:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/01/22 07:45	04/01/22 12:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/01/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 08:43	04/01/22 13:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 08:43	04/01/22 13:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 08:43	04/01/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130			04/01/22 08:43	04/01/22 13:09	1
o-Terphenyl	66	S1-	70 - 130			04/01/22 08:43	04/01/22 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	225		5.01	mg/Kg			04/01/22 17:58	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-11

Lab Sample ID: 890-2154-7

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.2		50.0	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 13:31	1
Diesel Range Organics (Over C10-C28)	86.2		50.0	mg/Kg		04/01/22 08:43	04/01/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			04/01/22 08:43	04/01/22 13:31	1
o-Terphenyl	97		70 - 130			04/01/22 08:43	04/01/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	681		4.99	mg/Kg			04/01/22 18:07	1

Client Sample ID: B-12

Lab Sample ID: 890-2154-8

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.9		50.0	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 13:52	1
Diesel Range Organics (Over C10-C28)	52.9		50.0	mg/Kg		04/01/22 08:43	04/01/22 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			04/01/22 08:43	04/01/22 13:52	1
o-Terphenyl	115		70 - 130			04/01/22 08:43	04/01/22 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		5.02	mg/Kg			04/01/22 18:15	1

Client Sample ID: B-13

Lab Sample ID: 890-2154-9

Date Collected: 03/31/22 10:15

Matrix: Solid

Date Received: 03/31/22 13:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/01/22 07:45	04/01/22 13:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/01/22 07:45	04/01/22 13:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/01/22 07:45	04/01/22 13:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/01/22 07:45	04/01/22 13:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/01/22 07:45	04/01/22 13:02	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-13

Lab Sample ID: 890-2154-9

Date Collected: 03/31/22 10:15

Matrix: Solid

Date Received: 03/31/22 13:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/01/22 07:45	04/01/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/01/22 07:45	04/01/22 13:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130			04/01/22 07:45	04/01/22 13:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/01/22 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	115		49.8	mg/Kg			04/01/22 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 08:43	04/01/22 14:14	1
Diesel Range Organics (Over C10-C28)	115		49.8	mg/Kg		04/01/22 08:43	04/01/22 14:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 08:43	04/01/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			04/01/22 08:43	04/01/22 14:14	1
o-Terphenyl	111		70 - 130			04/01/22 08:43	04/01/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.3		5.00	mg/Kg			04/01/22 18:24	1

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Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2154-1	B-7	110	109
890-2154-4	WW-3	104	107
890-2154-5	SW-1	115	104
890-2154-6	B-10	109	103
890-2154-9	B-13	108	109
LCS 880-22727/1-A	Lab Control Sample	102	109
LCSD 880-22727/2-A	Lab Control Sample Dup	103	109
MB 880-22727/5-A	Method Blank	105	103
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2154-1	B-7	107	110
890-2154-2	B-8	102	104
890-2154-3	B-9	103	106
890-2154-4	WW-3	106	105
890-2154-5	SW-1	103	106
890-2154-6	B-10	63 S1-	66 S1-
890-2154-7	B-11	97	97
890-2154-8	B-12	112	115
890-2154-9	B-13	110	111
LCS 880-22768/2-A	Lab Control Sample	120	104
LCS 880-22769/2-A	Lab Control Sample	100	88
LCSD 880-22768/3-A	Lab Control Sample Dup	125	111
LCSD 880-22769/3-A	Lab Control Sample Dup	110	97
MB 880-22768/1-A	Method Blank	136 S1+	140 S1+
MB 880-22769/1-A	Method Blank	133 S1+	139 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22727/5-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22727

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 10:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 10:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/01/22 07:45	04/01/22 10:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/01/22 07:45	04/01/22 10:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/01/22 07:45	04/01/22 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/01/22 07:45	04/01/22 10:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/01/22 07:45	04/01/22 10:58	1

Lab Sample ID: LCS 880-22727/1-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09423		mg/Kg		94	70 - 130
Toluene	0.100	0.09461		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09788		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09912		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-22727/2-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09219		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09207		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09579		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130	2	35
o-Xylene	0.100	0.09655		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

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

Lab Sample ID: MB 880-22768/1-A

Matrix: Solid

Analysis Batch: 22762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22768

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:39	04/01/22 10:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			04/01/22 08:39	04/01/22 10:19	1
o-Terphenyl	140	S1+	70 - 130			04/01/22 08:39	04/01/22 10:19	1

Lab Sample ID: LCS 880-22768/2-A

Matrix: Solid

Analysis Batch: 22762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	938.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	120		70 - 130				
o-Terphenyl	104		70 - 130				

Lab Sample ID: LCSD 880-22768/3-A

Matrix: Solid

Analysis Batch: 22762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1007		mg/Kg		101	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: MB 880-22769/1-A

Matrix: Solid

Analysis Batch: 22764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22769

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 08:43	04/01/22 10:19	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

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

Lab Sample ID: MB 880-22769/1-A

Matrix: Solid

Analysis Batch: 22764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22769

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	133	S1+	70 - 130	04/01/22 08:43	04/01/22 10:19	1				
o-Terphenyl	139	S1+	70 - 130	04/01/22 08:43	04/01/22 10:19	1				

Lab Sample ID: LCS 880-22769/2-A

Matrix: Solid

Analysis Batch: 22764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22769

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1061		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	863.3		mg/Kg		86	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: LCSD 880-22769/3-A

Matrix: Solid

Analysis Batch: 22764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22769

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1102		mg/Kg		110	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	852.2		mg/Kg		85	70 - 130	1	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	110		70 - 130									
o-Terphenyl	97		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22778/1-A

Matrix: Solid

Analysis Batch: 22838

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac		
Chloride	<5.00	U	5.00	mg/Kg			04/01/22 13:55	1			

Lab Sample ID: LCS 880-22778/2-A

Matrix: Solid

Analysis Batch: 22838

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	245.2		mg/Kg		98	90 - 110		

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-22778/3-A

Matrix: Solid

Analysis Batch: 22838

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2154-1 MS

Matrix: Solid

Analysis Batch: 22838

Client Sample ID: B-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	617		252	893.3		mg/Kg		110	90 - 110		

Lab Sample ID: 890-2154-1 MSD

Matrix: Solid

Analysis Batch: 22838

Client Sample ID: B-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	617		252	861.4		mg/Kg		97	90 - 110	4	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

GC VOA

Prep Batch: 22727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	5035	
890-2154-4	WW-3	Total/NA	Solid	5035	
890-2154-5	SW-1	Total/NA	Solid	5035	
890-2154-6	B-10	Total/NA	Solid	5035	
890-2154-9	B-13	Total/NA	Solid	5035	
MB 880-22727/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22727/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22727/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 22759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	8021B	22727
890-2154-4	WW-3	Total/NA	Solid	8021B	22727
890-2154-5	SW-1	Total/NA	Solid	8021B	22727
890-2154-6	B-10	Total/NA	Solid	8021B	22727
890-2154-9	B-13	Total/NA	Solid	8021B	22727
MB 880-22727/5-A	Method Blank	Total/NA	Solid	8021B	22727
LCS 880-22727/1-A	Lab Control Sample	Total/NA	Solid	8021B	22727
LCSD 880-22727/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22727

Analysis Batch: 22823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	Total BTEX	
890-2154-4	WW-3	Total/NA	Solid	Total BTEX	
890-2154-5	SW-1	Total/NA	Solid	Total BTEX	
890-2154-6	B-10	Total/NA	Solid	Total BTEX	
890-2154-9	B-13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	8015B NM	22768
890-2154-2	B-8	Total/NA	Solid	8015B NM	22768
890-2154-3	B-9	Total/NA	Solid	8015B NM	22768
890-2154-4	WW-3	Total/NA	Solid	8015B NM	22768
MB 880-22768/1-A	Method Blank	Total/NA	Solid	8015B NM	22768
LCS 880-22768/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22768
LCSD 880-22768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22768

Analysis Batch: 22764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-5	SW-1	Total/NA	Solid	8015B NM	22769
890-2154-6	B-10	Total/NA	Solid	8015B NM	22769
890-2154-7	B-11	Total/NA	Solid	8015B NM	22769
890-2154-8	B-12	Total/NA	Solid	8015B NM	22769
890-2154-9	B-13	Total/NA	Solid	8015B NM	22769
MB 880-22769/1-A	Method Blank	Total/NA	Solid	8015B NM	22769
LCS 880-22769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22769
LCSD 880-22769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22769

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

GC Semi VOA

Prep Batch: 22768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	8015NM Prep	
890-2154-2	B-8	Total/NA	Solid	8015NM Prep	
890-2154-3	B-9	Total/NA	Solid	8015NM Prep	
890-2154-4	WW-3	Total/NA	Solid	8015NM Prep	
MB 880-22768/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22768/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 22769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-5	SW-1	Total/NA	Solid	8015NM Prep	
890-2154-6	B-10	Total/NA	Solid	8015NM Prep	
890-2154-7	B-11	Total/NA	Solid	8015NM Prep	
890-2154-8	B-12	Total/NA	Solid	8015NM Prep	
890-2154-9	B-13	Total/NA	Solid	8015NM Prep	
MB 880-22769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Total/NA	Solid	8015 NM	
890-2154-2	B-8	Total/NA	Solid	8015 NM	
890-2154-3	B-9	Total/NA	Solid	8015 NM	
890-2154-4	WW-3	Total/NA	Solid	8015 NM	
890-2154-5	SW-1	Total/NA	Solid	8015 NM	
890-2154-6	B-10	Total/NA	Solid	8015 NM	
890-2154-7	B-11	Total/NA	Solid	8015 NM	
890-2154-8	B-12	Total/NA	Solid	8015 NM	
890-2154-9	B-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Soluble	Solid	DI Leach	
890-2154-2	B-8	Soluble	Solid	DI Leach	
890-2154-3	B-9	Soluble	Solid	DI Leach	
890-2154-4	WW-3	Soluble	Solid	DI Leach	
890-2154-5	SW-1	Soluble	Solid	DI Leach	
890-2154-6	B-10	Soluble	Solid	DI Leach	
890-2154-7	B-11	Soluble	Solid	DI Leach	
890-2154-8	B-12	Soluble	Solid	DI Leach	
890-2154-9	B-13	Soluble	Solid	DI Leach	
MB 880-22778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2154-1 MS	B-7	Soluble	Solid	DI Leach	
890-2154-1 MSD	B-7	Soluble	Solid	DI Leach	

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

HPLC/IC

Analysis Batch: 22838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2154-1	B-7	Soluble	Solid	300.0	22778
890-2154-2	B-8	Soluble	Solid	300.0	22778
890-2154-3	B-9	Soluble	Solid	300.0	22778
890-2154-4	WW-3	Soluble	Solid	300.0	22778
890-2154-5	SW-1	Soluble	Solid	300.0	22778
890-2154-6	B-10	Soluble	Solid	300.0	22778
890-2154-7	B-11	Soluble	Solid	300.0	22778
890-2154-8	B-12	Soluble	Solid	300.0	22778
890-2154-9	B-13	Soluble	Solid	300.0	22778
MB 880-22778/1-A	Method Blank	Soluble	Solid	300.0	22778
LCS 880-22778/2-A	Lab Control Sample	Soluble	Solid	300.0	22778
LCSD 880-22778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22778
890-2154-1 MS	B-7	Soluble	Solid	300.0	22778
890-2154-1 MSD	B-7	Soluble	Solid	300.0	22778

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-7

Lab Sample ID: 890-2154-1

Date Collected: 03/30/22 16:00

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22727	04/01/22 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/01/22 11:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22823	04/01/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22768	04/01/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22762	04/01/22 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 16:29	CH	XEN MID

Client Sample ID: B-8

Lab Sample ID: 890-2154-2

Date Collected: 03/30/22 16:05

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22768	04/01/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22762	04/01/22 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 16:56	CH	XEN MID

Client Sample ID: B-9

Lab Sample ID: 890-2154-3

Date Collected: 03/30/22 16:10

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22768	04/01/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22762	04/01/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 17:05	CH	XEN MID

Client Sample ID: WW-3

Lab Sample ID: 890-2154-4

Date Collected: 03/30/22 16:20

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22727	04/01/22 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/01/22 12:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22823	04/01/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22768	04/01/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22762	04/01/22 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		20			22838	04/01/22 17:49	CH	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: SW-1

Lab Sample ID: 890-2154-5

Date Collected: 03/31/22 09:30

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22727	04/01/22 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/01/22 12:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22823	04/01/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22769	04/01/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22764	04/01/22 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 17:22	CH	XEN MID

Client Sample ID: B-10

Lab Sample ID: 890-2154-6

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22727	04/01/22 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/01/22 12:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22823	04/01/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22769	04/01/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22764	04/01/22 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 17:58	CH	XEN MID

Client Sample ID: B-11

Lab Sample ID: 890-2154-7

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22769	04/01/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22764	04/01/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 18:07	CH	XEN MID

Client Sample ID: B-12

Lab Sample ID: 890-2154-8

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 03/31/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22769	04/01/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22764	04/01/22 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 18:15	CH	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Client Sample ID: B-13
Date Collected: 03/31/22 10:15
Date Received: 03/31/22 13:02

Lab Sample ID: 890-2154-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22727	04/01/22 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/01/22 13:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22823	04/01/22 14:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22846	04/01/22 17:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22769	04/01/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22764	04/01/22 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22778	04/01/22 09:48	CH	XEN MID
Soluble	Analysis	300.0		1			22838	04/01/22 18:24	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2154-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2154-1	B-7	Solid	03/30/22 16:00	03/31/22 13:02
890-2154-2	B-8	Solid	03/30/22 16:05	03/31/22 13:02
890-2154-3	B-9	Solid	03/30/22 16:10	03/31/22 13:02
890-2154-4	WW-3	Solid	03/30/22 16:20	03/31/22 13:02
890-2154-5	SW-1	Solid	03/31/22 09:30	03/31/22 13:02
890-2154-6	B-10	Solid	03/31/22 10:00	03/31/22 13:02
890-2154-7	B-11	Solid	03/31/22 10:05	03/31/22 13:02
890-2154-8	B-12	Solid	03/31/22 10:10	03/31/22 13:02
890-2154-9	B-13	Solid	03/31/22 10:15	03/31/22 13:02



Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

Cooling in progress

www.xenco.com Page 1 of 1

Project Manager:	Bred Wynne, willy Gilmore	Bill to: (if different)	
Company Name:	AECom	Company Name:	
Address:	13355 Noel Rd. Suite 400	Address:	
City, State ZIP:	Dallas TX 75240	City, State ZIP:	Waller, Gilmore@AECom.com
Phone:	214-971-1829	Email:	Bred Wynne@AECom.com

Project Name:	Cotton Hills	Turn Around		Pres. Code	
Project Number:	60657072	☐ Routine ☒ Rush			
Project Location:	Carlsbad, NM	Due Date:	ASAP		
Sampler's Name:	James Lovely	TAT starts the day received by the lab, if received by 4:30pm			
PO #:	60657072				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
B-7	Soil	3/30/22	1600	-	C	1			None: NO	
B-8	Soil	3/30/22	1605	-	C	1			Cool: Cool	
B-9	Soil	3/30/22	1610	-	C	1			HCL: HC	
WW-3	Soil	3/30/22	1620	-	C	1			H ₂ SO ₄ : H ₂	
SW-1	Soil	3/31/22	0930	-	C	1			H ₃ PO ₄ : HP	
B-10	Soil	3/31/22	1000	-	C	1			NaHSO ₄ : NABIS	
B-11	Soil	3/31/22	1005	-	C	1			Na ₂ S ₂ O ₃ : NaSO ₃	
B-12	Soil	3/31/22	1010	-	C	1			Zn Acetate+NaOH: Zn	
B-13	Soil	3/31/22	1015	-	C	1			NaOH+Ascorbic Acid: SAPC	

Total 2007 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3/31/22 1220	<i>[Signature]</i>	<i>[Signature]</i>	3/31/22 1303

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2154-1

SDG Number: 60657072

Login Number: 2154

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2154-1

SDG Number: 60657072

Login Number: 2154

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/01/22 11:03 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2164-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/13/2022 9:02:35 AM

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

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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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 890-2164-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Job ID: 890-2164-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2164-1

Receipt

The samples were received on 4/5/2022 12:57 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 5.2°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Client Sample ID: ELD-1

Lab Sample ID: 890-2164-1

Date Collected: 04/05/22 09:00

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		04/06/22 12:00	04/07/22 19:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/22 12:00	04/07/22 19:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/22 12:00	04/07/22 19:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/22 12:00	04/07/22 19:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/22 12:00	04/07/22 19:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/22 12:00	04/07/22 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/06/22 12:00	04/07/22 19:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/06/22 12:00	04/07/22 19:00	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			04/08/22 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/06/22 15:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/06/22 08:34	04/06/22 14:18	1
o-Terphenyl	124		70 - 130	04/06/22 08:34	04/06/22 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		99.6	mg/Kg			04/12/22 17:57	20

Client Sample ID: ELD-2

Lab Sample ID: 890-2164-2

Date Collected: 04/05/22 09:05

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/22 12:00	04/07/22 19:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/22 12:00	04/07/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/06/22 12:00	04/07/22 19:26	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/06/22 12:00	04/07/22 19:26	1

Eurofins Carlsbad

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Client Sample ID: ELD-2

Lab Sample ID: 890-2164-2

Date Collected: 04/05/22 09:05

Matrix: Solid

Date Received: 04/05/22 12:57

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/08/22 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.2		49.8	mg/Kg			04/06/22 15:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/06/22 08:34	04/06/22 14:39	1
Diesel Range Organics (Over C10-C28)	51.2		49.8	mg/Kg		04/06/22 08:34	04/06/22 14:39	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/06/22 08:34	04/06/22 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			04/06/22 08:34	04/06/22 14:39	1
o-Terphenyl	105		70 - 130			04/06/22 08:34	04/06/22 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	699		25.0	mg/Kg			04/12/22 19:17	5

Client Sample ID: ELD-DUP

Lab Sample ID: 890-2164-3

Date Collected: 04/05/22 00:00

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/22 12:00	04/07/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			04/06/22 12:00	04/07/22 19:53	1
1,4-Difluorobenzene (Surr)	89		70 - 130			04/06/22 12:00	04/07/22 19:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/08/22 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/06/22 15:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 15:00	1

Eurofins Carlsbad

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Client Sample ID: ELD-DUP

Lab Sample ID: 890-2164-3

Date Collected: 04/05/22 00:00

Matrix: Solid

Date Received: 04/05/22 12:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/06/22 08:34	04/06/22 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/06/22 08:34	04/06/22 15:00	1
o-Terphenyl	100		70 - 130			04/06/22 08:34	04/06/22 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	838		25.0	mg/Kg			04/12/22 19:26	5

Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2164-1	ELD-1	122	85
890-2164-2	ELD-2	117	87
890-2164-3	ELD-DUP	131 S1+	89
LCS 880-23080/1-A	Lab Control Sample	114	92
LCSD 880-23080/2-A	Lab Control Sample Dup	133 S1+	86
MB 880-23080/5-B	Method Blank	84	83
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2164-1	ELD-1	107	124
890-2164-2	ELD-2	95	105
890-2164-3	ELD-DUP	91	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23047/2-A	Lab Control Sample	99	113
LCSD 880-23047/3-A	Lab Control Sample Dup	101	117
MB 880-23047/1-A	Method Blank	91	104
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23080/5-B

Matrix: Solid

Analysis Batch: 23108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23080

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/22 17:00	04/07/22 12:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/22 17:00	04/07/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/22 17:00	04/07/22 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/22 17:00	04/07/22 12:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/22 17:00	04/07/22 12:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/22 17:00	04/07/22 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/06/22 17:00	04/07/22 12:02	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/06/22 17:00	04/07/22 12:02	1

Lab Sample ID: LCS 880-23080/1-A

Matrix: Solid

Analysis Batch: 23108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1290		mg/Kg		129	70 - 130
Toluene	0.100	0.1147		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-23080/2-A

Matrix: Solid

Analysis Batch: 23108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1316	*+	mg/Kg		132	70 - 130	2	35
Toluene	0.100	0.1261		mg/Kg		126	70 - 130	9	35
Ethylbenzene	0.100	0.1227		mg/Kg		123	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2489		mg/Kg		124	70 - 130	17	35
o-Xylene	0.100	0.1265		mg/Kg		126	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

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

Lab Sample ID: MB 880-23047/1-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/06/22 08:34	04/06/22 12:10	1
o-Terphenyl	104		70 - 130			04/06/22 08:34	04/06/22 12:10	1

Lab Sample ID: LCS 880-23047/2-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	984.7		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	113		70 - 130				

Lab Sample ID: LCSD 880-23047/3-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	848.0		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	994.2		mg/Kg		99	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	117		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23171/1-A

Matrix: Solid

Analysis Batch: 23400

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/12/22 15:44	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-23171/2-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 23400											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-23171/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 23400											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.9		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

GC VOA

Prep Batch: 23080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	5035	
890-2164-2	ELD-2	Total/NA	Solid	5035	
890-2164-3	ELD-DUP	Total/NA	Solid	5035	
MB 880-23080/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-23080/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23080/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 23108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	8021B	23080
890-2164-2	ELD-2	Total/NA	Solid	8021B	23080
890-2164-3	ELD-DUP	Total/NA	Solid	8021B	23080
MB 880-23080/5-B	Method Blank	Total/NA	Solid	8021B	23080
LCS 880-23080/1-A	Lab Control Sample	Total/NA	Solid	8021B	23080
LCSD 880-23080/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23080

Analysis Batch: 23251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	Total BTEX	
890-2164-2	ELD-2	Total/NA	Solid	Total BTEX	
890-2164-3	ELD-DUP	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	8015NM Prep	
890-2164-2	ELD-2	Total/NA	Solid	8015NM Prep	
890-2164-3	ELD-DUP	Total/NA	Solid	8015NM Prep	
MB 880-23047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	8015B NM	23047
890-2164-2	ELD-2	Total/NA	Solid	8015B NM	23047
890-2164-3	ELD-DUP	Total/NA	Solid	8015B NM	23047
MB 880-23047/1-A	Method Blank	Total/NA	Solid	8015B NM	23047
LCS 880-23047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23047
LCSD 880-23047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23047

Analysis Batch: 23082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Total/NA	Solid	8015 NM	
890-2164-2	ELD-2	Total/NA	Solid	8015 NM	
890-2164-3	ELD-DUP	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

HPLC/IC

Leach Batch: 23171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Soluble	Solid	DI Leach	
890-2164-2	ELD-2	Soluble	Solid	DI Leach	
890-2164-3	ELD-DUP	Soluble	Solid	DI Leach	
MB 880-23171/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23171/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23171/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2164-1	ELD-1	Soluble	Solid	300.0	23171
890-2164-2	ELD-2	Soluble	Solid	300.0	23171
890-2164-3	ELD-DUP	Soluble	Solid	300.0	23171
MB 880-23171/1-A	Method Blank	Soluble	Solid	300.0	23171
LCS 880-23171/2-A	Lab Control Sample	Soluble	Solid	300.0	23171
LCSD 880-23171/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23171

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Client Sample ID: ELD-1

Lab Sample ID: 890-2164-1

Date Collected: 04/05/22 09:00

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23080	04/06/22 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23108	04/07/22 19:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23251	04/08/22 16:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23082	04/06/22 15:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23047	04/06/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23065	04/06/22 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23171	04/07/22 13:32	SC	XEN MID
Soluble	Analysis	300.0		20			23400	04/12/22 17:57	CH	XEN MID

Client Sample ID: ELD-2

Lab Sample ID: 890-2164-2

Date Collected: 04/05/22 09:05

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23080	04/06/22 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23108	04/07/22 19:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23251	04/08/22 16:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23082	04/06/22 15:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23047	04/06/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23065	04/06/22 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23171	04/07/22 13:32	SC	XEN MID
Soluble	Analysis	300.0		5			23400	04/12/22 19:17	CH	XEN MID

Client Sample ID: ELD-DUP

Lab Sample ID: 890-2164-3

Date Collected: 04/05/22 00:00

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23080	04/06/22 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23108	04/07/22 19:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23251	04/08/22 16:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23082	04/06/22 15:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23047	04/06/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23065	04/06/22 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23171	04/07/22 13:32	SC	XEN MID
Soluble	Analysis	300.0		5			23400	04/12/22 19:26	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 890-2164-1
SDG: 60657072

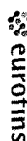
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2164-1	ELD-1	Solid	04/05/22 09:00	04/05/22 12:57
890-2164-2	ELD-2	Solid	04/05/22 09:05	04/05/22 12:57
890-2164-3	ELD-DUP	Solid	04/05/22 00:00	04/05/22 12:57

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- 12
- 13
- 14

Chain of Custody Record

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:



Environment Testing America

Ver. 06/08/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2164-1

SDG Number: 60657072

Login Number: 2164

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2164-1

SDG Number: 60657072

Login Number: 2164

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/06/22 10:38 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2165-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: Cotton Hill

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/6/2022 9:37:33 PM

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

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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.

Client: AECOM
Project/Site: Cotton Hill

Laboratory Job ID: 890-2165-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Qualifiers

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Job ID: 890-2165-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2165-1

Receipt

The samples were received on 4/5/2022 12:57 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 5.2°C

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Client Sample ID: WW-2B

Lab Sample ID: 890-2165-1

Date Collected: 04/05/22 09:25

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		25.0	mg/Kg			04/06/22 20:45	5

Client Sample ID: EW-1A

Lab Sample ID: 890-2165-2

Date Collected: 04/05/22 09:45

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	566		4.95	mg/Kg			04/06/22 20:54	1

Client Sample ID: NW-2A

Lab Sample ID: 890-2165-3

Date Collected: 04/05/22 09:50

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		4.97	mg/Kg			04/06/22 21:03	1

Client Sample ID: B-15A

Lab Sample ID: 890-2165-4

Date Collected: 04/05/22 10:00

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	427		5.04	mg/Kg			04/06/22 21:12	1

Client Sample ID: B-16A

Lab Sample ID: 890-2165-5

Date Collected: 04/05/22 10:05

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		4.99	mg/Kg			04/06/22 21:20	1

Client Sample ID: B-18A

Lab Sample ID: 890-2165-6

Date Collected: 04/05/22 10:10

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		5.05	mg/Kg			04/06/22 21:29	1

Client Sample ID: B-21A

Lab Sample ID: 890-2165-7

Date Collected: 04/05/22 10:30

Matrix: Solid

Date Received: 04/05/22 12:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/06/22 15:36	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Client Sample ID: B-21A

Lab Sample ID: 890-2165-7

Date Collected: 04/05/22 10:30

Matrix: Solid

Date Received: 04/05/22 12:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/06/22 08:34	04/06/22 13:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/06/22 08:34	04/06/22 13:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/06/22 08:34	04/06/22 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/06/22 08:34	04/06/22 13:14	1
o-Terphenyl	104		70 - 130			04/06/22 08:34	04/06/22 13:14	1

Client Sample ID: B-22A

Lab Sample ID: 890-2165-8

Date Collected: 04/05/22 10:35

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.99	mg/Kg			04/06/22 21:38	1

Client Sample ID: B-25A

Lab Sample ID: 890-2165-9

Date Collected: 04/05/22 10:40

Matrix: Solid

Date Received: 04/05/22 12:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		5.00	mg/Kg			04/06/22 21:47	1

Surrogate Summary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-2165-7	B-21A	91	104				
890-2165-7 MS	B-21A	87	94				
890-2165-7 MSD	B-21A	88	95				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO2	OTPH2				
		(70-130)	(70-130)				
LCS 880-23047/2-A	Lab Control Sample	99	113				
LCSD 880-23047/3-A	Lab Control Sample Dup	101	117				
MB 880-23047/1-A	Method Blank	91	104				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

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

Lab Sample ID: MB 880-23047/1-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/06/22 08:34	04/06/22 12:10	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/06/22 08:34	04/06/22 12:10	1
o-Terphenyl	104		70 - 130			04/06/22 08:34	04/06/22 12:10	1

Lab Sample ID: LCS 880-23047/2-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	984.7		mg/Kg		98	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	113		70 - 130				

Lab Sample ID: LCSD 880-23047/3-A

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	848.0		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	994.2		mg/Kg		99	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: 890-2165-7 MS

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: B-21A

Prep Type: Total/NA

Prep Batch: 23047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	939.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	860.8		mg/Kg		84	70 - 130

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

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

Lab Sample ID: 890-2165-7 MS

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: B-21A

Prep Type: Total/NA

Prep Batch: 23047

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-2165-7 MSD

Matrix: Solid

Analysis Batch: 23065

Client Sample ID: B-21A

Prep Type: Total/NA

Prep Batch: 23047

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	964.9		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	875.4		mg/Kg		86	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23078/1-A

Matrix: Solid

Analysis Batch: 23079

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			04/06/22 12:21	1		

Lab Sample ID: LCS 880-23078/2-A

Matrix: Solid

Analysis Batch: 23079

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	252.6		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-23078/3-A

Matrix: Solid

Analysis Batch: 23079

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	253.1		mg/Kg		101	90 - 110	0	20

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QC Association Summary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

GC Semi VOA

Prep Batch: 23047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2165-7	B-21A	Total/NA	Solid	8015NM Prep	
MB 880-23047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2165-7 MS	B-21A	Total/NA	Solid	8015NM Prep	
890-2165-7 MSD	B-21A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2165-7	B-21A	Total/NA	Solid	8015B NM	23047
MB 880-23047/1-A	Method Blank	Total/NA	Solid	8015B NM	23047
LCS 880-23047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23047
LCSD 880-23047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23047
890-2165-7 MS	B-21A	Total/NA	Solid	8015B NM	23047
890-2165-7 MSD	B-21A	Total/NA	Solid	8015B NM	23047

Analysis Batch: 23081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2165-7	B-21A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2165-1	WW-2B	Soluble	Solid	DI Leach	
890-2165-2	EW-1A	Soluble	Solid	DI Leach	
890-2165-3	NW-2A	Soluble	Solid	DI Leach	
890-2165-4	B-15A	Soluble	Solid	DI Leach	
890-2165-5	B-16A	Soluble	Solid	DI Leach	
890-2165-6	B-18A	Soluble	Solid	DI Leach	
890-2165-8	B-22A	Soluble	Solid	DI Leach	
890-2165-9	B-25A	Soluble	Solid	DI Leach	
MB 880-23078/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23078/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23078/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2165-1	WW-2B	Soluble	Solid	300.0	23078
890-2165-2	EW-1A	Soluble	Solid	300.0	23078
890-2165-3	NW-2A	Soluble	Solid	300.0	23078
890-2165-4	B-15A	Soluble	Solid	300.0	23078
890-2165-5	B-16A	Soluble	Solid	300.0	23078
890-2165-6	B-18A	Soluble	Solid	300.0	23078
890-2165-8	B-22A	Soluble	Solid	300.0	23078
890-2165-9	B-25A	Soluble	Solid	300.0	23078
MB 880-23078/1-A	Method Blank	Soluble	Solid	300.0	23078
LCS 880-23078/2-A	Lab Control Sample	Soluble	Solid	300.0	23078
LCSD 880-23078/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23078

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Client Sample ID: WW-2B

Lab Sample ID: 890-2165-1

Date Collected: 04/05/22 09:25

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		5			23079	04/06/22 20:45	SC	XEN MID

Client Sample ID: EW-1A

Lab Sample ID: 890-2165-2

Date Collected: 04/05/22 09:45

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 20:54	SC	XEN MID

Client Sample ID: NW-2A

Lab Sample ID: 890-2165-3

Date Collected: 04/05/22 09:50

Matrix: Solid

Date Received: 04/05/22 12:57

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	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:03	SC	XEN MID

Client Sample ID: B-15A

Lab Sample ID: 890-2165-4

Date Collected: 04/05/22 10:00

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:12	SC	XEN MID

Client Sample ID: B-16A

Lab Sample ID: 890-2165-5

Date Collected: 04/05/22 10:05

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:20	SC	XEN MID

Client Sample ID: B-18A

Lab Sample ID: 890-2165-6

Date Collected: 04/05/22 10:10

Matrix: Solid

Date Received: 04/05/22 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:29	SC	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Client Sample ID: B-21A
Date Collected: 04/05/22 10:30
Date Received: 04/05/22 12:57

Lab Sample ID: 890-2165-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23081	04/06/22 15:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	23047	04/06/22 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23065	04/06/22 13:14	AJ	XEN MID

Client Sample ID: B-22A
Date Collected: 04/05/22 10:35
Date Received: 04/05/22 12:57

Lab Sample ID: 890-2165-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:38	SC	XEN MID

Client Sample ID: B-25A
Date Collected: 04/05/22 10:40
Date Received: 04/05/22 12:57

Lab Sample ID: 890-2165-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23078	04/06/22 13:02	SC	XEN MID
Soluble	Analysis	300.0		1			23079	04/06/22 21:47	SC	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

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

Method Summary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

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

Sample Summary

Client: AECOM
Project/Site: Cotton Hill

Job ID: 890-2165-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2165-1	WW-2B	Solid	04/05/22 09:25	04/05/22 12:57
890-2165-2	EW-1A	Solid	04/05/22 09:45	04/05/22 12:57
890-2165-3	NW-2A	Solid	04/05/22 09:50	04/05/22 12:57
890-2165-4	B-15A	Solid	04/05/22 10:00	04/05/22 12:57
890-2165-5	B-16A	Solid	04/05/22 10:05	04/05/22 12:57
890-2165-6	B-18A	Solid	04/05/22 10:10	04/05/22 12:57
890-2165-7	B-21A	Solid	04/05/22 10:30	04/05/22 12:57
890-2165-8	B-22A	Solid	04/05/22 10:35	04/05/22 12:57
890-2165-9	B-25A	Solid	04/05/22 10:40	04/05/22 12:57



Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (505) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Pre-Cooling in Process

Project Manager:	Brod Wynne, Wally Gilmore	Bill to: (if different)	
Company Name:	AECOM	Company Name:	
Address:	13355 Noel Rd Suite 400	Address:	
City, State ZIP:	Dallas TX 75240	City, State ZIP:	Waller, Gilmore @ AECOM.com
Phone:	214-971-1829	Email:	Brodwynne@AECOM.com

Work Order Comments			
Program:	UST/PST ☐ PBP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other:		

Project Name:	Cotton Hills	Turn Around	
Project Number:	60657072	☐ Routine ☒ Rush	Pres. Code
Project Location:	Carlsbad, NM	Due Date:	ASAP
Sampler's Name:	James Lorely	TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:	60657072	Wet Ice:	(A) Yes No
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Thermometer ID:	NM-207
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes No M/A	Temperature Reading:	5.9
Sample Custody Seals:	Yes No N/A	Corrected Temperature:	5.2
Total Containers:			



890-2165 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
WW-2B	Soil	4/5/22	0925	-	C	1	X	Chlorides EPA 300	None: NO	DI Water: H ₂ O
EW-1A	Soil	4/5/22	0945	-	C	1	X	TPH 8015M	Cool: Cool	MeOH: Me
NW-2A	Soil	4/5/22	0950	-	C	1	X		HCL: HC	HNO ₃ : HN
B-15A	Soil	4/5/22	1000	-	C	1	X		H ₂ SO ₄ : H ₂	NaOH: Na
B-16A	Soil	4/5/22	1005	-	C	1	X		H ₃ PO ₄ : HP	
B-18A	Soil	4/5/22	1010	-	C	1	X		NaHSO ₄ : NABIS	
B-21A	Soil	4/5/22	1030	-	C	1	X		Na ₂ S ₂ O ₃ : NaSO ₃	
B-22A	Soil	4/5/22	1035	-	C	1	X		Zn Acetate+NaOH: Zn	
B-25A	Soil	4/5/22	1040	-	C	1	X		NaOH+Ascorbic Acid: SARC	

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	4/5/22 1220	<i>[Signature]</i>	<i>[Signature]</i>	4/5/22 12:57

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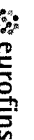
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Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:		Phone	Bulles, John		890-699 1
Shipping/Receiving		E-Mail	Bulles@et.eurofins.com	State of Origin	Page:
Company:		John		New Mexico	Page 1 of 1
Eurofins Environment Testing South Central		Accreditations Required (See note):		Job #:	890-2165-1
Address		1211 W Florida Ave	NE LAP - Texas		
City:	Midland	Due Date Requested	Analysis Requested		
State Zip	TX, 79701	4/6/2022			
Phone	432-704-5440(Tel)	TAT Requested (day/s):			
Fax					
Project Name:	Cotton Hill	Project #:			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (If water based, Overall, or other)
WMW-2B (890-2165-1)	4/5/22	09 25	Mountain		Solid
EW-1A (890-2165-2)	4/5/22	09 45	Mountain		Solid
NW-1A (890-2165-3)	4/5/22	09 50	Mountain		Solid
B-15A (890-2165-4)	4/5/22	10 00	Mountain		Solid
B-16A (890-2165-5)	4/5/22	10 05	Mountain		Solid
B-18A (890-2165-6)	4/5/22	10 10	Mountain		Solid
B-21A (890-2165-7)	4/5/22	10 30	Mountain		Solid
B-22A (890-2165-8)	4/5/22	10 35	Mountain		Solid
B-25A (890-2165-9)	4/5/22	10 40	Mountain		Solid
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank: 2			
Empty Kit Relinquished by:		Date	Time	Method of Shipment:	
Relinquished by:		Date/Time:	Company	Received by:	
Relinquished by:		Date/Time:	Company	Received by:	
Relinquished by:		Date/Time:	Company	Received by:	
Custody Seals Intact:		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	
A Yes A No					

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2165-1

SDG Number: 60657072

Login Number: 2165

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2165-1

SDG Number: 60657072

Login Number: 2165

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/06/22 10:38 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2166-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: cotton hills

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/7/2022 4:18:04 PM

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

LINKS

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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.

Client: AECOM
Project/Site: cotton hills

Laboratory Job ID: 890-2166-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM

Job ID: 890-2166-1

Project/Site: cotton hills

SDG: 60657072

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Job ID: 890-2166-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2166-1

Receipt

The samples were received on 4/5/2022 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

HPLC/IC

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
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Client Sample ID: B-26
Date Collected: 04/05/22 09:15
Date Received: 04/05/22 12:20

Lab Sample ID: 890-2166-1
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		25.0	mg/Kg			04/07/22 14:42	5

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QC Sample Results

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23093/1-A

Matrix: Solid

Analysis Batch: 23123

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/07/22 10:51	1

Lab Sample ID: LCS 880-23093/2-A

Matrix: Solid

Analysis Batch: 23123

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.2		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-23093/3-A

Matrix: Solid

Analysis Batch: 23123

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.7		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

HPLC/IC

Leach Batch: 23093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2166-1	B-26	Soluble	Solid	DI Leach	
MB 880-23093/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23093/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23093/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2166-1	B-26	Soluble	Solid	300.0	23093
MB 880-23093/1-A	Method Blank	Soluble	Solid	300.0	23093
LCS 880-23093/2-A	Lab Control Sample	Soluble	Solid	300.0	23093
LCSD 880-23093/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23093

Lab Chronicle

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Client Sample ID: B-26
Date Collected: 04/05/22 09:15
Date Received: 04/05/22 12:20

Lab Sample ID: 890-2166-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23093	04/07/22 09:50	SC	XEN MID
Soluble	Analysis	300.0		5			23123	04/07/22 14:42	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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Method Summary

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

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

Sample Summary

Client: AECOM
Project/Site: cotton hills

Job ID: 890-2166-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2166-1	B-26	Solid	04/05/22 09:15	04/05/22 12:20

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (505) 392-5550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page ____ of ____

Project Manager:	Brad Wynne, Kelly Gilmer		Bill to: (if different)	
Company Name:	AECOM		Company Name:	
Address:	13355 Noel Rd. Suite 400		Address:	walhee.gilmer@AECOM.com
City, State ZIP:	Dallas, TX 75240	City, State ZIP:	Dallas, TX 75240	
Phone:	214-971-1829	Email:	Bradley.Wynne@AECOM.com	

Work Order Comments				
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRR ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐
Deliverables:	EDD ☐	Adapt ☐	Other:	

[illegible]

Notice: Signature of this document certifies that the fulfillment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the costs 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 Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously respect

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.							
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		
1 <i>[Signature]</i>	<i>[Signature]</i>	4/5/22 12:00	2	<i>[Signature]</i>	4/5/22 12:08		
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5			6				

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2166-1

SDG Number: 60657072

Login Number: 2166

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2166-1

SDG Number: 60657072

Login Number: 2166

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/07/22 04:50 PM

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	



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2171-1
Laboratory Sample Delivery Group: 60657072
Client Project/Site: COTTON HILLS

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/8/2022 1:17:31 PM

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

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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.

Client: AECOM
Project/Site: COTTON HILLS

Laboratory Job ID: 890-2171-1
SDG: 60657072

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Definitions/Glossary

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Job ID: 890-2171-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-2171-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2022 12:57 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 was 1.4° C.

General Chemistry

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

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Client Sample Results

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Client Sample ID: WW-2C
Date Collected: 04/07/22 08:30
Date Received: 04/07/22 12:57

Lab Sample ID: 890-2171-1
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	104		4.95	mg/Kg			04/08/22 13:16	1	

Client Sample ID: NW-2B
Date Collected: 04/07/22 08:55
Date Received: 04/07/22 12:57

Lab Sample ID: 890-2171-2
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	37.4		4.97	mg/Kg			04/08/22 12:55	1	

QC Sample Results

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23191/1-A

Matrix: Solid

Analysis Batch: 23215

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/08/22 11:51	1

Lab Sample ID: LCS 880-23191/2-A

Matrix: Solid

Analysis Batch: 23215

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-23191/3-A

Matrix: Solid

Analysis Batch: 23215

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

HPLC/IC

Leach Batch: 23191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2171-1	WW-2C	Soluble	Solid	DI Leach	
890-2171-2	NW-2B	Soluble	Solid	DI Leach	
MB 880-23191/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23191/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23191/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2171-1	WW-2C	Soluble	Solid	300.0	23191
890-2171-2	NW-2B	Soluble	Solid	300.0	23191
MB 880-23191/1-A	Method Blank	Soluble	Solid	300.0	23191
LCS 880-23191/2-A	Lab Control Sample	Soluble	Solid	300.0	23191
LCSD 880-23191/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23191

Lab Chronicle

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Client Sample ID: WW-2C
Date Collected: 04/07/22 08:30
Date Received: 04/07/22 12:57

Lab Sample ID: 890-2171-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23191	04/07/22 18:12	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	23215	04/08/22 13:16	SC	XEN MID

Client Sample ID: NW-2B
Date Collected: 04/07/22 08:55
Date Received: 04/07/22 12:57

Lab Sample ID: 890-2171-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23191	04/07/22 18:12	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	23215	04/08/22 12:55	SC	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
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- 3
- 4
- 5
- 6
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- 11
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Method Summary

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

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

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Sample Summary

Client: AECOM
Project/Site: COTTON HILLS

Job ID: 890-2171-1
SDG: 60657072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2171-1	WW-2C	Solid	04/07/22 08:30	04/07/22 12:57
890-2171-2	NW-2B	Solid	04/07/22 08:55	04/07/22 12:57

- 1
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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
CIP Cooling in Places

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Braid Wyne, Wally Cimper		
Company Name:	AECOM	Company Name:	
Address:	1355 Noel Rd S. Ste 400	Address:	
City, State ZIP:	Dallas TX 75240	City, State ZIP:	Waller Cimper @ AECOM.com
Phone:	214-741-7772	Email:	Braid Wyne @ AECOM.com

Work Order Comments				
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	Adapt ☐	Other: _____	

[illegible]

Total 2007.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP	/ SPLP	6010	:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.																																	
Hg: 1631 / 245.1 / 77470 / 7471																																	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	4/7/22 12:20		<i>[Signature]</i>	4/7/22 12:5

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2171-1

SDG Number: 60657072

Login Number: 2171

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 890-2171-1

SDG Number: 60657072

Login Number: 2171

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/08/22 10:34 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-13195-1

Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Cotton Hills

For:

AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/4/2022 12:17:42 PM

John Builes, Project Manager
(561)558-4549
john.builes@eurofinset.com

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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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 880-13195-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Job ID: 880-13195-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-13195-1****Receipt**

The samples were received on 4/1/2022 2:33 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 4.3°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: NW-2 (880-13195-1), SW-3 (880-13195-5), B-19 (880-13195-11), B-25 (880-13195-17) and (MB 880-22842/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-22825 and analytical batch 880-22863 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 Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: NW-2

Lab Sample ID: 880-13195-1

Date Collected: 04/01/22 08:00

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 11:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 11:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 11:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			04/01/22 16:07	04/03/22 11:46	1
o-Terphenyl	141	S1+	70 - 130			04/01/22 16:07	04/03/22 11:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		24.8	mg/Kg			04/01/22 21:48	5

Client Sample ID: NW-3

Lab Sample ID: 880-13195-2

Date Collected: 04/01/22 08:05

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/01/22 17:00	04/02/22 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			04/01/22 17:00	04/02/22 20:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130			04/01/22 17:00	04/02/22 20:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			04/04/22 12:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 12:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			04/01/22 16:07	04/03/22 12:50	1

Eurofins Midland

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: NW-3

Lab Sample ID: 880-13195-2

Date Collected: 04/01/22 08:05

Matrix: Solid

Date Received: 04/01/22 14:33

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	127		70 - 130	04/01/22 16:07	04/03/22 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		25.0	mg/Kg			04/01/22 22:14	5

Client Sample ID: EW-1

Lab Sample ID: 880-13195-3

Date Collected: 04/01/22 08:15

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 13:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 13:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 16:07	04/03/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/01/22 16:07	04/03/22 13:11	1
o-Terphenyl	112		70 - 130	04/01/22 16:07	04/03/22 13:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		25.0	mg/Kg			04/01/22 22:23	5

Client Sample ID: SW-2

Lab Sample ID: 880-13195-4

Date Collected: 04/01/22 08:25

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/01/22 16:07	04/03/22 13:33	1
o-Terphenyl	117		70 - 130	04/01/22 16:07	04/03/22 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		24.9	mg/Kg			04/01/22 22:32	5

Eurofins Midland

Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: SW-3

Lab Sample ID: 880-13195-5

Date Collected: 04/01/22 08:30

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/01/22 17:00	04/02/22 20:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/01/22 17:00	04/02/22 20:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/01/22 17:00	04/02/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/01/22 17:00	04/02/22 20:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/01/22 17:00	04/02/22 20:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/04/22 12:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/01/22 16:07	04/03/22 13:54	1
o-Terphenyl	132	S1+	70 - 130	04/01/22 16:07	04/03/22 13:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		5.00	mg/Kg			04/01/22 22:41	1

Client Sample ID: B-14

Lab Sample ID: 880-13195-6

Date Collected: 04/01/22 08:40

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 14:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/01/22 16:07	04/03/22 14:16	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-14

Lab Sample ID: 880-13195-6

Date Collected: 04/01/22 08:40

Matrix: Solid

Date Received: 04/01/22 14:33

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	115		70 - 130	04/01/22 16:07	04/03/22 14:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	614		24.9	mg/Kg			04/01/22 23:08	5

Client Sample ID: B-15

Lab Sample ID: 880-13195-7

Date Collected: 04/01/22 08:45

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 14:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	04/01/22 16:07	04/03/22 14:39	1
<i>o</i> -Terphenyl	84		70 - 130	04/01/22 16:07	04/03/22 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		25.0	mg/Kg			04/01/22 23:16	5

Client Sample ID: B-16

Lab Sample ID: 880-13195-8

Date Collected: 04/01/22 08:50

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/01/22 17:00	04/02/22 20:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/01/22 17:00	04/02/22 20:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/01/22 17:00	04/02/22 20:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/01/22 17:00	04/02/22 20:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/01/22 17:00	04/02/22 20:51	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/01/22 17:00	04/02/22 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/01/22 17:00	04/02/22 20:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/01/22 17:00	04/02/22 20:51	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			04/04/22 12:30	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-16

Lab Sample ID: 880-13195-8

Date Collected: 04/01/22 08:50

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 15:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/01/22 16:07	04/03/22 15:01	1
o-Terphenyl	101		70 - 130			04/01/22 16:07	04/03/22 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		24.8	mg/Kg			04/01/22 23:25	5

Client Sample ID: B-17

Lab Sample ID: 880-13195-9

Date Collected: 04/01/22 09:00

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 15:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 15:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:07	04/03/22 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			04/01/22 16:07	04/03/22 15:24	1
o-Terphenyl	82		70 - 130			04/01/22 16:07	04/03/22 15:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	419		4.95	mg/Kg			04/01/22 23:34	1

Client Sample ID: B-18

Lab Sample ID: 880-13195-10

Date Collected: 04/01/22 09:05

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/22 12:15	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-18

Lab Sample ID: 880-13195-10

Date Collected: 04/01/22 09:05

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:08	04/03/22 15:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:08	04/03/22 15:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:08	04/03/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			04/01/22 16:08	04/03/22 15:46	1
o-Terphenyl	117		70 - 130			04/01/22 16:08	04/03/22 15:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	728		25.2	mg/Kg			04/01/22 23:43	5

Client Sample ID: B-19

Lab Sample ID: 880-13195-11

Date Collected: 04/01/22 09:10

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/01/22 17:00	04/02/22 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/01/22 17:00	04/02/22 21:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/01/22 17:00	04/02/22 21:12	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			04/04/22 12:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			04/01/22 16:08	04/03/22 16:32	1
o-Terphenyl	78		70 - 130			04/01/22 16:08	04/03/22 16:32	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-19

Lab Sample ID: 880-13195-11

Date Collected: 04/01/22 09:10

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392	F1	25.2	mg/Kg			04/01/22 23:52	5

Client Sample ID: B-20

Lab Sample ID: 880-13195-12

Date Collected: 04/01/22 09:20

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			04/01/22 16:08	04/03/22 16:54	1
o-Terphenyl	107		70 - 130			04/01/22 16:08	04/03/22 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		4.97	mg/Kg			04/02/22 00:18	1

Client Sample ID: B-21

Lab Sample ID: 880-13195-13

Date Collected: 04/01/22 09:25

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148		49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/04/22 06:59	1
Diesel Range Organics (Over C10-C28)	148		49.9	mg/Kg		04/01/22 16:08	04/04/22 06:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/04/22 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			04/01/22 16:08	04/04/22 06:59	1
o-Terphenyl	115		70 - 130			04/01/22 16:08	04/04/22 06:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		4.95	mg/Kg			04/02/22 00:27	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-22

Lab Sample ID: 880-13195-14

Date Collected: 04/01/22 09:30

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/01/22 17:00	04/02/22 21:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/01/22 17:00	04/02/22 21:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/01/22 17:00	04/02/22 21:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/01/22 17:00	04/02/22 21:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/01/22 17:00	04/02/22 21:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/01/22 17:00	04/02/22 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/01/22 17:00	04/02/22 21:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/01/22 17:00	04/02/22 21:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/04/22 12:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 17:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 17:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			04/01/22 16:08	04/03/22 17:39	1
o-Terphenyl	110		70 - 130			04/01/22 16:08	04/03/22 17:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		24.9	mg/Kg			04/02/22 00:54	5

Client Sample ID: B-23

Lab Sample ID: 880-13195-15

Date Collected: 04/01/22 09:40

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			04/01/22 16:08	04/03/22 18:02	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-23

Lab Sample ID: 880-13195-15

Date Collected: 04/01/22 09:40

Matrix: Solid

Date Received: 04/01/22 14:33

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	92		70 - 130	04/01/22 16:08	04/03/22 18:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	596		25.0	mg/Kg			04/02/22 01:03	5

Client Sample ID: B-24

Lab Sample ID: 880-13195-16

Date Collected: 04/01/22 09:45

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 18:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 18:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/01/22 16:08	04/03/22 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	04/01/22 16:08	04/03/22 18:24	1
<i>o</i> -Terphenyl	89		70 - 130	04/01/22 16:08	04/03/22 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	582		24.8	mg/Kg			04/02/22 01:11	5

Client Sample ID: B-25

Lab Sample ID: 880-13195-17

Date Collected: 04/01/22 09:50

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/01/22 17:00	04/02/22 21:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/01/22 17:00	04/02/22 21:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/01/22 17:00	04/02/22 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/01/22 17:00	04/02/22 21:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/01/22 17:00	04/02/22 21:53	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			04/04/22 12:30	1

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Client Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-25

Lab Sample ID: 880-13195-17

Date Collected: 04/01/22 09:50

Matrix: Solid

Date Received: 04/01/22 14:33

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/22 12:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/01/22 16:08	04/03/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			04/01/22 16:08	04/03/22 18:47	1
o-Terphenyl	74		70 - 130			04/01/22 16:08	04/03/22 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	723		25.1	mg/Kg			04/02/22 01:20	5

Client Sample ID: B-2A

Lab Sample ID: 880-13195-18

Date Collected: 04/01/22 10:10

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.98	mg/Kg			04/02/22 01:29	1

Client Sample ID: WW-2A

Lab Sample ID: 880-13195-19

Date Collected: 04/01/22 10:05

Matrix: Solid

Date Received: 04/01/22 14:33

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		4.99	mg/Kg			04/02/22 01:38	1

Surrogate Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-13195-2	NW-3	111	109
880-13195-2 MS	NW-3	109	112
880-13195-2 MSD	NW-3	110	111
880-13195-5	SW-3	108	106
880-13195-8	B-16	105	107
880-13195-11	B-19	107	108
880-13195-14	B-22	109	108
880-13195-17	B-25	107	107
LCS 880-22806/1-A	Lab Control Sample	102	109
LCSD 880-22806/2-A	Lab Control Sample Dup	105	112
MB 880-22623/5-A	Method Blank	102	102
MB 880-22759/105	Method Blank	102	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-13195-1	NW-2	110	141 S1+
880-13195-1 MS	NW-2	84	92
880-13195-1 MSD	NW-2	82	86
880-13195-2	NW-3	98	127
880-13195-3	EW-1	92	112
880-13195-4	SW-2	104	117
880-13195-5	SW-3	111	132 S1+
880-13195-6	B-14	100	115
880-13195-7	B-15	74	84
880-13195-8	B-16	88	101
880-13195-9	B-17	74	82
880-13195-10	B-18	100	117
880-13195-11	B-19	69 S1-	78
880-13195-12	B-20	93	107
880-13195-13	B-21	94	115
880-13195-14	B-22	95	110
880-13195-15	B-23	81	92
880-13195-16	B-24	76	89
880-13195-17	B-25	68 S1-	74
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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Surrogate Summary

Client: AECOM

Project/Site: Cotton Hills

Job ID: 880-13195-1

SDG: Carlsbad NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-22842/2-A	Lab Control Sample	102	120
LCSD 880-22842/3-A	Lab Control Sample Dup	96	112
MB 880-22842/1-A	Method Blank	106	139 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22623/5-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22623

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/30/22 10:08	04/02/22 08:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/22 10:08	04/02/22 08:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/22 10:08	04/02/22 08:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/30/22 10:08	04/02/22 08:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/22 10:08	04/02/22 08:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/30/22 10:08	04/02/22 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/30/22 10:08	04/02/22 08:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/30/22 10:08	04/02/22 08:51	1

Lab Sample ID: MB 880-22759/105

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			04/02/22 19:49	1
Toluene	<0.00200	U	0.00200	mg/Kg			04/02/22 19:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			04/02/22 19:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			04/02/22 19:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			04/02/22 19:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			04/02/22 19:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		04/02/22 19:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130		04/02/22 19:49	1

Lab Sample ID: LCS 880-22806/1-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09065		mg/Kg		91	70 - 130
Toluene	0.100	0.09070		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09298		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09564		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-22806/2-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	10	35

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

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

Lab Sample ID: LCSD 880-22806/2-A

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	10	35
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130	11	35
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-13195-2 MS

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: NW-3

Prep Type: Total/NA

Prep Batch: 22806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.07946		mg/Kg		80	70 - 130
Toluene	<0.00198	U	0.0996	0.07895		mg/Kg		79	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.08047		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1671		mg/Kg		84	70 - 130
o-Xylene	<0.00198	U	0.0996	0.08283		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-13195-2 MSD

Matrix: Solid

Analysis Batch: 22759

Client Sample ID: NW-3

Prep Type: Total/NA

Prep Batch: 22806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0990	0.08838		mg/Kg		89	70 - 130	11	35
Toluene	<0.00198	U	0.0990	0.08830		mg/Kg		89	70 - 130	11	35
Ethylbenzene	<0.00198	U	0.0990	0.09005		mg/Kg		91	70 - 130	11	35
m-Xylene & p-Xylene	<0.00397	U	0.198	0.1871		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00198	U	0.0990	0.09284		mg/Kg		94	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-22842/1-A

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22842

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 10:42	1

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

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

Lab Sample ID: MB 880-22842/1-A

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22842

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 10:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/01/22 16:07	04/03/22 10:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			04/01/22 16:07	04/03/22 10:42	1
o-Terphenyl	139	S1+	70 - 130			04/01/22 16:07	04/03/22 10:42	1

Lab Sample ID: LCS 880-22842/2-A

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	915.9		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1041		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	102		70 - 130				
o-Terphenyl	120		70 - 130				

Lab Sample ID: LCSD 880-22842/3-A

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	849.9		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	947.6		mg/Kg		95	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 880-13195-1 MS

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: NW-2

Prep Type: Total/NA

Prep Batch: 22842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	853.1		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	790.7		mg/Kg		77	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	92		70 - 130						

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

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

Lab Sample ID: 880-13195-1 MSD

Matrix: Solid

Analysis Batch: 22881

Client Sample ID: NW-2

Prep Type: Total/NA

Prep Batch: 22842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	869.9		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	739.5		mg/Kg		72	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	86		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22825/1-A

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/01/22 21:21	1

Lab Sample ID: LCS 880-22825/2-A

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-22825/3-A

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-13195-1 MS

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: NW-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2000		1240	3287		mg/Kg		104	90 - 110

Lab Sample ID: 880-13195-1 MSD

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: NW-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2000		1240	3257		mg/Kg		102	90 - 110	1	20

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-13195-11 MS

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: B-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	392	F1	1260	2090	F1	mg/Kg		135	90 - 110		

Lab Sample ID: 880-13195-11 MSD

Matrix: Solid

Analysis Batch: 22863

Client Sample ID: B-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	392	F1	1260	1802	F1	mg/Kg		112	90 - 110	15	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 22623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22623/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-2	NW-3	Total/NA	Solid	8021B	22806
880-13195-5	SW-3	Total/NA	Solid	8021B	22806
880-13195-8	B-16	Total/NA	Solid	8021B	22806
880-13195-11	B-19	Total/NA	Solid	8021B	22806
880-13195-14	B-22	Total/NA	Solid	8021B	22806
880-13195-17	B-25	Total/NA	Solid	8021B	22806
MB 880-22623/5-A	Method Blank	Total/NA	Solid	8021B	22623
MB 880-22759/105	Method Blank	Total/NA	Solid	8021B	
LCS 880-22806/1-A	Lab Control Sample	Total/NA	Solid	8021B	22806
LCSD 880-22806/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22806
880-13195-2 MS	NW-3	Total/NA	Solid	8021B	22806
880-13195-2 MSD	NW-3	Total/NA	Solid	8021B	22806

Prep Batch: 22806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-2	NW-3	Total/NA	Solid	5035	
880-13195-5	SW-3	Total/NA	Solid	5035	
880-13195-8	B-16	Total/NA	Solid	5035	
880-13195-11	B-19	Total/NA	Solid	5035	
880-13195-14	B-22	Total/NA	Solid	5035	
880-13195-17	B-25	Total/NA	Solid	5035	
LCS 880-22806/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22806/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13195-2 MS	NW-3	Total/NA	Solid	5035	
880-13195-2 MSD	NW-3	Total/NA	Solid	5035	

Analysis Batch: 22947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-2	NW-3	Total/NA	Solid	Total BTEX	
880-13195-5	SW-3	Total/NA	Solid	Total BTEX	
880-13195-8	B-16	Total/NA	Solid	Total BTEX	
880-13195-11	B-19	Total/NA	Solid	Total BTEX	
880-13195-14	B-22	Total/NA	Solid	Total BTEX	
880-13195-17	B-25	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 22842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-1	NW-2	Total/NA	Solid	8015NM Prep	
880-13195-2	NW-3	Total/NA	Solid	8015NM Prep	
880-13195-3	EW-1	Total/NA	Solid	8015NM Prep	
880-13195-4	SW-2	Total/NA	Solid	8015NM Prep	
880-13195-5	SW-3	Total/NA	Solid	8015NM Prep	
880-13195-6	B-14	Total/NA	Solid	8015NM Prep	
880-13195-7	B-15	Total/NA	Solid	8015NM Prep	
880-13195-8	B-16	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 22842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-9	B-17	Total/NA	Solid	8015NM Prep	
880-13195-10	B-18	Total/NA	Solid	8015NM Prep	
880-13195-11	B-19	Total/NA	Solid	8015NM Prep	
880-13195-12	B-20	Total/NA	Solid	8015NM Prep	
880-13195-13	B-21	Total/NA	Solid	8015NM Prep	
880-13195-14	B-22	Total/NA	Solid	8015NM Prep	
880-13195-15	B-23	Total/NA	Solid	8015NM Prep	
880-13195-16	B-24	Total/NA	Solid	8015NM Prep	
880-13195-17	B-25	Total/NA	Solid	8015NM Prep	
MB 880-22842/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22842/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22842/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13195-1 MS	NW-2	Total/NA	Solid	8015NM Prep	
880-13195-1 MSD	NW-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-1	NW-2	Total/NA	Solid	8015B NM	22842
880-13195-2	NW-3	Total/NA	Solid	8015B NM	22842
880-13195-3	EW-1	Total/NA	Solid	8015B NM	22842
880-13195-4	SW-2	Total/NA	Solid	8015B NM	22842
880-13195-5	SW-3	Total/NA	Solid	8015B NM	22842
880-13195-6	B-14	Total/NA	Solid	8015B NM	22842
880-13195-7	B-15	Total/NA	Solid	8015B NM	22842
880-13195-8	B-16	Total/NA	Solid	8015B NM	22842
880-13195-9	B-17	Total/NA	Solid	8015B NM	22842
880-13195-10	B-18	Total/NA	Solid	8015B NM	22842
880-13195-11	B-19	Total/NA	Solid	8015B NM	22842
880-13195-12	B-20	Total/NA	Solid	8015B NM	22842
880-13195-13	B-21	Total/NA	Solid	8015B NM	22842
880-13195-14	B-22	Total/NA	Solid	8015B NM	22842
880-13195-15	B-23	Total/NA	Solid	8015B NM	22842
880-13195-16	B-24	Total/NA	Solid	8015B NM	22842
880-13195-17	B-25	Total/NA	Solid	8015B NM	22842
MB 880-22842/1-A	Method Blank	Total/NA	Solid	8015B NM	22842
LCS 880-22842/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22842
LCSD 880-22842/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22842
880-13195-1 MS	NW-2	Total/NA	Solid	8015B NM	22842
880-13195-1 MSD	NW-2	Total/NA	Solid	8015B NM	22842

Analysis Batch: 22937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-1	NW-2	Total/NA	Solid	8015 NM	
880-13195-2	NW-3	Total/NA	Solid	8015 NM	
880-13195-3	EW-1	Total/NA	Solid	8015 NM	
880-13195-4	SW-2	Total/NA	Solid	8015 NM	
880-13195-5	SW-3	Total/NA	Solid	8015 NM	
880-13195-6	B-14	Total/NA	Solid	8015 NM	
880-13195-7	B-15	Total/NA	Solid	8015 NM	
880-13195-8	B-16	Total/NA	Solid	8015 NM	
880-13195-9	B-17	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 22937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-10	B-18	Total/NA	Solid	8015 NM	
880-13195-11	B-19	Total/NA	Solid	8015 NM	
880-13195-12	B-20	Total/NA	Solid	8015 NM	
880-13195-13	B-21	Total/NA	Solid	8015 NM	
880-13195-14	B-22	Total/NA	Solid	8015 NM	
880-13195-15	B-23	Total/NA	Solid	8015 NM	
880-13195-16	B-24	Total/NA	Solid	8015 NM	
880-13195-17	B-25	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-1	NW-2	Soluble	Solid	DI Leach	
880-13195-2	NW-3	Soluble	Solid	DI Leach	
880-13195-3	EW-1	Soluble	Solid	DI Leach	
880-13195-4	SW-2	Soluble	Solid	DI Leach	
880-13195-5	SW-3	Soluble	Solid	DI Leach	
880-13195-6	B-14	Soluble	Solid	DI Leach	
880-13195-7	B-15	Soluble	Solid	DI Leach	
880-13195-8	B-16	Soluble	Solid	DI Leach	
880-13195-9	B-17	Soluble	Solid	DI Leach	
880-13195-10	B-18	Soluble	Solid	DI Leach	
880-13195-11	B-19	Soluble	Solid	DI Leach	
880-13195-12	B-20	Soluble	Solid	DI Leach	
880-13195-13	B-21	Soluble	Solid	DI Leach	
880-13195-14	B-22	Soluble	Solid	DI Leach	
880-13195-15	B-23	Soluble	Solid	DI Leach	
880-13195-16	B-24	Soluble	Solid	DI Leach	
880-13195-17	B-25	Soluble	Solid	DI Leach	
880-13195-18	B-2A	Soluble	Solid	DI Leach	
880-13195-19	WW-2A	Soluble	Solid	DI Leach	
MB 880-22825/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22825/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22825/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13195-1 MS	NW-2	Soluble	Solid	DI Leach	
880-13195-1 MSD	NW-2	Soluble	Solid	DI Leach	
880-13195-11 MS	B-19	Soluble	Solid	DI Leach	
880-13195-11 MSD	B-19	Soluble	Solid	DI Leach	

Analysis Batch: 22863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-1	NW-2	Soluble	Solid	300.0	22825
880-13195-2	NW-3	Soluble	Solid	300.0	22825
880-13195-3	EW-1	Soluble	Solid	300.0	22825
880-13195-4	SW-2	Soluble	Solid	300.0	22825
880-13195-5	SW-3	Soluble	Solid	300.0	22825
880-13195-6	B-14	Soluble	Solid	300.0	22825
880-13195-7	B-15	Soluble	Solid	300.0	22825
880-13195-8	B-16	Soluble	Solid	300.0	22825
880-13195-9	B-17	Soluble	Solid	300.0	22825

Eurofins Midland

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

HPLC/IC (Continued)

Analysis Batch: 22863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13195-10	B-18	Soluble	Solid	300.0	22825
880-13195-11	B-19	Soluble	Solid	300.0	22825
880-13195-12	B-20	Soluble	Solid	300.0	22825
880-13195-13	B-21	Soluble	Solid	300.0	22825
880-13195-14	B-22	Soluble	Solid	300.0	22825
880-13195-15	B-23	Soluble	Solid	300.0	22825
880-13195-16	B-24	Soluble	Solid	300.0	22825
880-13195-17	B-25	Soluble	Solid	300.0	22825
880-13195-18	B-2A	Soluble	Solid	300.0	22825
880-13195-19	WW-2A	Soluble	Solid	300.0	22825
MB 880-22825/1-A	Method Blank	Soluble	Solid	300.0	22825
LCS 880-22825/2-A	Lab Control Sample	Soluble	Solid	300.0	22825
LCSD 880-22825/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22825
880-13195-1 MS	NW-2	Soluble	Solid	300.0	22825
880-13195-1 MSD	NW-2	Soluble	Solid	300.0	22825
880-13195-11 MS	B-19	Soluble	Solid	300.0	22825
880-13195-11 MSD	B-19	Soluble	Solid	300.0	22825

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: NW-2

Lab Sample ID: 880-13195-1

Date Collected: 04/01/22 08:00

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 11:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 21:48	CH	XEN MID

Client Sample ID: NW-3

Lab Sample ID: 880-13195-2

Date Collected: 04/01/22 08:05

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 20:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 22:14	CH	XEN MID

Client Sample ID: EW-1

Lab Sample ID: 880-13195-3

Date Collected: 04/01/22 08:15

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 13:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 22:23	CH	XEN MID

Client Sample ID: SW-2

Lab Sample ID: 880-13195-4

Date Collected: 04/01/22 08:25

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 22:32	CH	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: SW-3

Lab Sample ID: 880-13195-5

Date Collected: 04/01/22 08:30

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 20:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/01/22 22:41	CH	XEN MID

Client Sample ID: B-14

Lab Sample ID: 880-13195-6

Date Collected: 04/01/22 08:40

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 14:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 23:08	CH	XEN MID

Client Sample ID: B-15

Lab Sample ID: 880-13195-7

Date Collected: 04/01/22 08:45

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 23:16	CH	XEN MID

Client Sample ID: B-16

Lab Sample ID: 880-13195-8

Date Collected: 04/01/22 08:50

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 20:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 23:25	CH	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-17

Lab Sample ID: 880-13195-9

Date Collected: 04/01/22 09:00

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22842	04/01/22 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/01/22 23:34	CH	XEN MID

Client Sample ID: B-18

Lab Sample ID: 880-13195-10

Date Collected: 04/01/22 09:05

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 23:43	CH	XEN MID

Client Sample ID: B-19

Lab Sample ID: 880-13195-11

Date Collected: 04/01/22 09:10

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 21:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/01/22 23:52	CH	XEN MID

Client Sample ID: B-20

Lab Sample ID: 880-13195-12

Date Collected: 04/01/22 09:20

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/02/22 00:18	CH	XEN MID

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Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-21

Lab Sample ID: 880-13195-13

Date Collected: 04/01/22 09:25

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/04/22 06:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/02/22 00:27	CH	XEN MID

Client Sample ID: B-22

Lab Sample ID: 880-13195-14

Date Collected: 04/01/22 09:30

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 21:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/02/22 00:54	CH	XEN MID

Client Sample ID: B-23

Lab Sample ID: 880-13195-15

Date Collected: 04/01/22 09:40

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/02/22 01:03	CH	XEN MID

Client Sample ID: B-24

Lab Sample ID: 880-13195-16

Date Collected: 04/01/22 09:45

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/02/22 01:11	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Client Sample ID: B-25

Lab Sample ID: 880-13195-17

Date Collected: 04/01/22 09:50

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22806	04/01/22 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22759	04/02/22 21:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22947	04/04/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22937	04/04/22 12:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22842	04/01/22 16:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22881	04/03/22 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		5			22863	04/02/22 01:20	CH	XEN MID

Client Sample ID: B-2A

Lab Sample ID: 880-13195-18

Date Collected: 04/01/22 10:10

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/02/22 01:29	CH	XEN MID

Client Sample ID: WW-2A

Lab Sample ID: 880-13195-19

Date Collected: 04/01/22 10:05

Matrix: Solid

Date Received: 04/01/22 14:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	22825	04/01/22 14:59	CH	XEN MID
Soluble	Analysis	300.0		1			22863	04/02/22 01:38	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

- 1
- 2
- 3
- 4
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- 13
- 14

Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13195-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13195-1	NW-2	Solid	04/01/22 08:00	04/01/22 14:33
880-13195-2	NW-3	Solid	04/01/22 08:05	04/01/22 14:33
880-13195-3	EW-1	Solid	04/01/22 08:15	04/01/22 14:33
880-13195-4	SW-2	Solid	04/01/22 08:25	04/01/22 14:33
880-13195-5	SW-3	Solid	04/01/22 08:30	04/01/22 14:33
880-13195-6	B-14	Solid	04/01/22 08:40	04/01/22 14:33
880-13195-7	B-15	Solid	04/01/22 08:45	04/01/22 14:33
880-13195-8	B-16	Solid	04/01/22 08:50	04/01/22 14:33
880-13195-9	B-17	Solid	04/01/22 09:00	04/01/22 14:33
880-13195-10	B-18	Solid	04/01/22 09:05	04/01/22 14:33
880-13195-11	B-19	Solid	04/01/22 09:10	04/01/22 14:33
880-13195-12	B-20	Solid	04/01/22 09:20	04/01/22 14:33
880-13195-13	B-21	Solid	04/01/22 09:25	04/01/22 14:33
880-13195-14	B-22	Solid	04/01/22 09:30	04/01/22 14:33
880-13195-15	B-23	Solid	04/01/22 09:40	04/01/22 14:33
880-13195-16	B-24	Solid	04/01/22 09:45	04/01/22 14:33
880-13195-17	B-25	Solid	04/01/22 09:50	04/01/22 14:33
880-13195-18	B-2A	Solid	04/01/22 10:10	04/01/22 14:33
880-13195-19	WW-2A	Solid	04/01/22 10:05	04/01/22 14:33



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: 13195

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Project Manager	Brad Wynne, Kelly Gilmore	(if different)
Company Name	ATEcom	Company Name
Address	13355 Noel Rd Suite 400	Address
City State ZIP	Dallas TX 75240	City State ZIP
Phone	214-971-1829	Email
		Bradley Wynne@ATEcom.com

Program: ☐ UST/PST ☐ PPP ☐ Brownfields ☐ RRC ☐ Superfund	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other

Project Name	Cotton Hills	Turn Around	Pres. Code
Project Number	60657072	☐ Routine ☒ Rush	
Project Location	Carlsbad, NM	Due Date	ASAP 1day
Sampler's Name	Jones, Lorely	TAT starts the day received by the lab, if received by 4:30pm	
PO #	60657072		
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No	
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID	TPB
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor	-1
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading	4.4
Total Containers:		Corrected Temperature	4.3

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
MW-2	Soil	4/1/22	0800	-	C	1	TPH 8015M
NW-3	Soil	4/1/22	0805	-	C	1	Chlorides EPA300
EW-1	Soil	4/1/22	0815	-	C	1	BTEX 8021B
SW-2	Soil	4/1/22	0825	-	C	1	
SW-3	Soil	4/1/22	0830	-	C	1	
B-14	Soil	4/1/22	0840	-	C	1	
B-15	Soil	4/1/22	0845	-	C	1	
B-16	Soil	4/1/22	0850	-	C	1	
B-17	Soil	4/1/22	0900	-	C	1	
B-18	Soil	4/1/22	0905	-	C	1	



860-13195 Chain of Custody

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631/2451/7470/7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		4/1/22 1433			



Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3332
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 10113

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Project Manager	Brend Wynne, liberty Gilman	Bill to: (if different)	
Company Name	AECOM	Company Name	
Address	13355 Nobel Rd Suite 400	Address	
City State ZIP	Dallas, TX 75240	City State ZIP	Waltham, MA 02451
Phone	214-971-1829	Email	Bryce.Wynne@AECOM.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ other

ANALYSIS REQUEST										Preservative Codes				
Project Name	Turn Around	Project Number	☐ Routine ☒ Rush	Pres. Code							None NO	D1 Water H ₂ O		
Project Location	Due Date	Sampler's Name	TAT starts the day/received by the lab, if received by 4:30pm								Cool Cool	MeOH Me		
PO #											HCL HC	HNO ₃ HN		
SAMPLE RECEIPT		Team Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐								H ₂ SO ₄ H ₂	NaOH Na
Samples Received Intact	Yes ☒ No ☐	Thermometer ID											H ₃ PO ₄ HP	
Cooler Custody Seals	Yes ☒ No ☐	Correction Factor											NaHSO ₄ NABIS	
Sample Custody Seals	Yes ☒ No ☐	Temperature Reading											Na ₂ S ₂ O ₃ NaSO ₃	
Total Containers:		Corrected Temperature											Zn Acetate+NaOH Zn	
													NaOH+Ascorbic Acid SARC	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont						Sample Comments	
B-19		Soil	4/1/22	0910	-	C	1	X	X	X				
B-20		Soil	4/1/22	0920	-	C	1	X	X	X				
B-21		Soil	4/1/22	0925	-	C	1	X	X	X				
B-22		Soil	4/1/22	0930	-	C	1	X	X	X				
B-23		Soil	4/1/22	0940	-	C	1	X	X	X				
B-24		Soil	4/1/22	0945	-	C	1	X	X	X				
B-25		Soil	4/1/22	0950	-	C	1	X	X	X				
B-2A		Soil	4/1/22	1010	-	C	1	X	X	X				
WW-2A		Soil	4/1/22	1005	-	C	1	X	X	X				

Total 2007 / 6010	2008 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TLCP / SPLP 6010	8RCRA	5b	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U					Hg	1631 / 245	1 / 7470	7471					

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xerco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco 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 Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: AECOM

Job Number: 880-13195-1

SDG Number: Carlsbad NM

Login Number: 13195

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-13200-1

Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Cotton Hills

For:

AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

A handwritten signature in black ink, appearing to read "John Builes", is positioned above a horizontal line.

Authorized for release by:
4/6/2022 9:02:27 AM

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

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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.

Client: AECOM
Project/Site: Cotton Hills

Laboratory Job ID: 880-13200-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Job ID: 880-13200-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-13200-1

Receipt
The samples were received on 4/1/2022 2:33 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 4.3°C

HPLC/IC
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
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Client Sample ID: WW-3A
Date Collected: 04/01/22 10:00
Date Received: 04/01/22 14:33

Lab Sample ID: 880-13200-2
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	525		49.9	mg/Kg			04/05/22 19:45	10	

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QC Sample Results

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23018/1-A

Matrix: Solid

Analysis Batch: 23036

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/05/22 17:15	1

Lab Sample ID: LCS 880-23018/2-A

Matrix: Solid

Analysis Batch: 23036

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-23018/3-A

Matrix: Solid

Analysis Batch: 23036

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 880-13200-2 MS

Matrix: Solid

Analysis Batch: 23036

Client Sample ID: WW-3A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	525		2500	3039		mg/Kg		101	90 - 110

Lab Sample ID: 880-13200-2 MSD

Matrix: Solid

Analysis Batch: 23036

Client Sample ID: WW-3A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	525		2500	3042		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

HPLC/IC

Leach Batch: 23018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13200-2	WW-3A	Soluble	Solid	DI Leach	
MB 880-23018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13200-2 MS	WW-3A	Soluble	Solid	DI Leach	
880-13200-2 MSD	WW-3A	Soluble	Solid	DI Leach	

Analysis Batch: 23036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13200-2	WW-3A	Soluble	Solid	300.0	23018
MB 880-23018/1-A	Method Blank	Soluble	Solid	300.0	23018
LCS 880-23018/2-A	Lab Control Sample	Soluble	Solid	300.0	23018
LCSD 880-23018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23018
880-13200-2 MS	WW-3A	Soluble	Solid	300.0	23018
880-13200-2 MSD	WW-3A	Soluble	Solid	300.0	23018

Lab Chronicle

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Client Sample ID: WW-3A
Date Collected: 04/01/22 10:00
Date Received: 04/01/22 14:33

Lab Sample ID: 880-13200-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23018	04/05/22 10:49	CH	XEN MID
Soluble	Analysis	300.0		10			23036	04/05/22 19:45	SC	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
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Method Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

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

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Sample Summary

Client: AECOM
Project/Site: Cotton Hills

Job ID: 880-13200-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13200-2	WW-3A	Solid	04/01/22 10:00	04/01/22 14:33

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Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

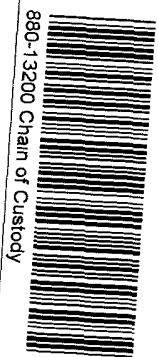
Work Order No: 13200

www.xenco.com Page 1 of 1

Project Manager	Bred Wynne, Wally Gilmore	Bill to (if different)	
Company Name	AECOM	Company Name	
Address	13355 Nobel Rd Suite 400	City, State ZIP	Waller, Gilmore @ AECOM.com
City, State ZIP	Dallas, TX 75240	Email	Bredley.Wynne@AECOM.com
Phone	214-971-1829		

Work Order Comments	
Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Cotton Hills	Turn Around	☐ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes
Project Number	60657072	Due Date						None NO DI Water H ₂ O
Project Location	Catshead, NM	TAT starts the day received by the lab, if received by 4:30pm						Cool Cool MeOH Me
Sampler's Name	Jessie Lopez	Correction Factor						HCL, HC HNO ₃ HN
PO #	60657072	Temperature Reading						H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank Yes ☒ No ☐	Wet Ice Yes ☒ No ☐						H ₂ PO ₄ HP
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID						NaHSO ₄ NABIS
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor						Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading						Zn Acetate+NaOH Zn
Total Containers		Corrected Temperature						NaOH+Ascorbic Acid SARC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont		Sample Comments
South-Well Head - 1	Soil	3/31/22	1630	-	C	1	X	Hold
WW-3A	Soil	4/1/22	1000	-	C	1	X	Hold



880-13200 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		4/1/22 1433			

Login Sample Receipt Checklist

Client: AECOM

Job Number: 880-13200-1

SDG Number: Carlsbad NM

Login Number: 13200

List Number: 1

List Source: Eurofins Midland

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 <6mm (1/4").	N/A	

Appendix C

Soil Disposal Documentation

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Travis Stevens

Phone No. _____



(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 247847

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal com # 0014
 API No. 36015415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	(DB) CARLSBAD
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE (Chevron) DATE

[Signature]
 SIGNATURE

TRANSPORTER

Transporter's Name M MATA THUCKINS
 Address _____
 Phone No. WHP 7337

Driver's Name ALFONSO MUIZ
 Phone No. _____
 Truck No. 02
 WHP No. 02 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 9:59 AM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 01

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

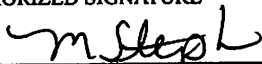
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM												
NO #CAR- 4938 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.				
G E N E R A T O R T R A N S P O R T E R D I S P O S I T Y	3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676		4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.						
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.		11. Yards
	a. Soil Excavated during Spill Remediation APT. 30015415350001											20
	b.											
	c.											
	d.											
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code UCRE 10200							13. WASTE PROFILE NO. NA				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD										24-HOUR EMERGENCY NO. 575-887-5676	
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.											
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 			DATE 3/30/22			
16. TRANSPORTER (1) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:							
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____							
DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			20. COMMENTS									
21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			22. AUTHORIZED SIGNATURE 			CELL NO. DI		DATE 03-30-22		TIME 10:00 AM		

Disposal Site: Please complete Disposal Facility section at bottom of form and
 mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247469

Operator No. _____

Permit/PPC No. _____

Operators Name Chevron Carlsbad

Lease/Well

Cotton Hills 23 26 27Address 5301 Lomas Dr.

Name & No.

Federal Com # 001 HCity, State, Zip Carlsbad, NM 88220

County

Phone No. 575-887-5676

API No.

30015415350001

Rig Name & No.

AFE/PO No.

UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____
 Oil Based Cuttings _____
 Waste Based Muds _____
 Water Based Cuttings _____
 Produced Formation Solids _____
 Tank Bottoms _____
 E&P Contaminated Soil 20 yards
 Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

Belly

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 4/4/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Phone No.

Truck No.

WHP No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 10:14 AM

OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1

Site Name/

Permit No.

Address

Red Bluff Facility / STF-0655053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NONORM (mR/hr) 6

TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&W Received

BS&W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

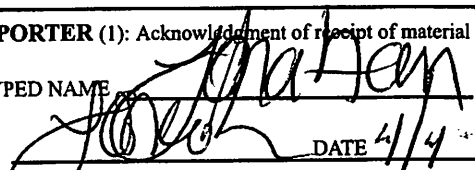
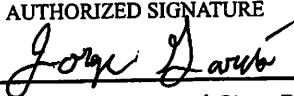
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

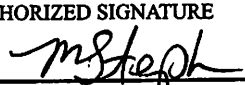
CHEVRON											
MCBU											
Carlsbad, NM											
NO #CAR- 5008 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.			
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE				
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.				
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards	
	a. Soil Excavated during spill Remediation APR 30015415350001									20	
	b.										
T R A N S P O R T E R S	c.										
	d.										
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code VCRE 10200						13. WASTE PROFILE NO. NA				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676				
D I S P O S I T I O N A L S I T E	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
	PRINTED TYPED NAME James Loney on behalf of Travis Stevens					SIGNATURE 					DATE 4/4/22
	16. TRANSPORTER (1) NAME M MAHA					17. TRANSPORTER (2) NAME					
D I S P O S I T I O N A L S I T E	IN CASE OF EMERGENCY CONTACT:					IN CASE OF EMERGENCY CONTACT:					
	EMERGENCY PHONE:					EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material					
	PRINTED/TYPED NAME Maaha					PRINTED/TYPED NAME					
	SIGNATURE  DATE 4/4					SIGNATURE DATE					
D I S P O S I T I O N A L S I T E	R360 Environmental Solutions 5063 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:				
	PERMIT NO. STF-065			20. COMMENTS							
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
	AUTHORIZED SIGNATURE 					CELL NO. 432-448-4239		DATE 4-4-22		TIME 10:15 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4927 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS		9. TOTAL	
							No. Type		QUANTITY	
	a. <i>Soil excavated during spill remediation - APT 3001541535001</i>								10. UNIT WT/Vol.	
	b.								11. Yards 20	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRE 10200							13. WASTE PROFILE NO. N/A		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
CHEVRON CARLSBAD										
24-HOUR EMERGENCY NO. 575-887-5676										
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
T R A N S P O R T E R S	PRINTED TYPED NAME <i>Jones Lovey on behalf of Travis Stivers (Chevron)</i>					SIGNATURE 		DATE 3/29/22		
	16. TRANSPORTER (1) NAME M MATA					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Javier Lowry</i> SIGNATURE <i>Javier Lowry</i> DATE 3-29-22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
D I S P O S I T Y	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
AUTHORIZED SIGNATURE 					CELL NO. 01		DATE 3-29-22		TIME 11:53 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Travis Stevens

Phone No. _____



(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 247832

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal com #001H
 API No. 30015415350001
 Rig Name & No. _____
 AFE/PO No. UCLF 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>CHEVRON manifest</u>	_____
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	<u>CAR 4929</u>	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	<u>(DB) CARLSBAD</u>	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____		_____
E&P Contaminated Soil	☒	Truck Washout (exempt waste)	_____		_____
Gas Plant Waste	_____		_____		_____

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/29/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE (Chevron) DATE

TRANSPORTER

Transporter's Name M MATA
 Address 575 8631 3231
 Phone No. _____

Driver's Name Jonah
 Phone No. _____
 Truck No. 01
 WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 11:55 AM OUT: _____Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W Received	_____	BS&W (%)	_____
Free Water	_____		_____
Total Received	_____		_____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

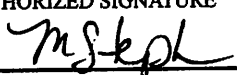
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4928 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR'S CERTIFICATION:	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil excavated during spill remediation - APT 3001541530001								10. UNIT WT/Vol.	
	b.								11. Yards	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code: VCRE 10200							13. WASTE PROFILE NO. N/A		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
TRANSPORTER'S CERTIFICATION:	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens (Chevron)					SIGNATURE 			DATE 3/29/22	
	16. TRANSPORTER (1) NAME M MATA Trucking					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jonathan SIGNATURE Jonathan DATE 3/29/22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
DISPOSAL SITE:	ADDRESS: R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			PHONE:						
	PERMIT NO. Orla, TX 79770			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. 01		DATE 03-29-22		TIME 11:56 AM

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

GENERATOR

NO. 247834

Permit/PPC No. _____

Lease/Well _____

Name & No. Cotton Hills 23 26 27County Federal com #001 H

API No. _____

Rig Name & No. 30015415350001AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____

Oil Based Cuttings _____

Waste Based Muds _____

Water Based Cuttings _____

Produced Formation Solids _____

Tank Bottoms _____

E&P Contaminated Soil 20 yards

Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's

Name _____

Address 11111111

Phone No. _____

TRANSPORTER

Driver's Name Jeremiah

Phone No. _____

Truck No. 01

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 4:01 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 01

Site Name/

Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr) 7

TANK BOTTOMS

Feet

Inches

1st Gauge _____

2nd Gauge _____

Received _____

BS&W Received _____

Free Water _____

Total Received _____

BS&W (%) _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

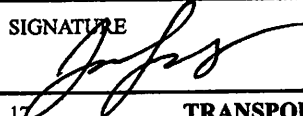
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON							
MCBU							
Carlsbad, NM							
NO #CAR- 4932 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1	
3. COMPANY NAME CHEVRON CARLSBAD						4. ADDRESS 5301 LOMAS DR.	
PHONE NO. 575-887-5676						5. PICK-UP DATE	
CITY CARLSBAD, NM						6. STATE 88220	
GENERATOR'S CERTIFICATION	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type	
	a. Soil Excavated during spill Remediation					9. TOTAL QUANTITY	
	APT 30015415350001					10. UNIT WT/Vol.	
	b.					11. Yards	
	c.					20	
TRANSPORTER'S CERTIFICATION	d.						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE PROFILE NO.	
	Cost code VCRE 10200					NA	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	CHEVRON CARLSBAD					24-HOUR EMERGENCY NO. 575-887-5676	
DISPOSAL SITE	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.						
	PRINTED TYPED NAME James Lacey on behalf of Travis Stevens (Chevron)				SIGNATURE 		DATE 3/29/22
	16. TRANSPORTER (1) NAME M NATA				17. TRANSPORTER (2) NAME		
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jorahsten				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME		
SIGNATURE Jorahsten DATE 3/29/22				SIGNATURE DATE			
DISPOSAL SITE	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770				ADDRESS:		PHONE:
	PERMIT NO.				20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE 				CELL NO. 01		DATE 3-29-22
					TIME 4:01 pm		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247835

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal Com # 001 H
 API No. 30015415350001
 Rig Name & No. UCR 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	(DB) CARLSBAD
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/29/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

(Chevron)

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. Mata Trucking
 Address WHP 7337
 Phone No. _____

Driver's Name Ramon Ramirez
 Phone No. _____
 Truck No. 9837
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 1:32 pm OUT: _____Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

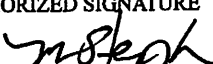
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU												
Carlsbad, NM												
NO #CAR- 4929 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.				
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.						
	PHONE NO. 575-887-5676											
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.		11. Yards
	a. Soil Excavated during Spill Remediation APT 30015415350001											20
	b.											
	c.											
d.												
12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code UCRE 10200						13. WASTE PROFILE NO. N/A						
14. IN CASE OF EMERGENCY OR SPILL, CONTACT												
CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676						
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.												
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE						
D I S P O S I T O R S	PERMIT NO.		ADDRESS: R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770				PHONE:					
	20. COMMENTS											
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3-29-22		TIME 1:33pm			

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247836

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Cotton HMLs 23 26 27
 Name & No. Federal Com # 001H
 County _____
 API No. 30015415350001
 Rig Name & No. _____
 AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>(B) CARLSBAD</u>
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens (Chevron)
 (PRINT) AUTHORIZED AGENTS SIGNATURE

3/29/22
 DATE

SIGNATURE

TRANSPORTER

Transporter's Name M MATA TRUCKING
 Address Hobbs NM 88240
 Phone No. _____

Driver's Name Javier Pohlen
 Phone No. 575 441-0497
 Truck No. 109
 WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 3:43pm OUT: _____Name/No. D/

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU					
Carlsbad, NM					
NO #CAR- 4933 NON-HAZARDOUS WASTE MANIFEST				1. PAGE <u>1</u> OF <u>1</u>	
3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676		4. ADDRESS 5301 LOMAS DR. CITY CARLSBAD, NM STATE 88220 ZIP		5. PICK-UP DATE 6.	
GENERATOR	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	
	a. Soil Excavated during Spill Remediation ADT 3001541535001			9. TOTAL QUANTITY	
	b.			10. UNIT WT/Vol.	
	c.			11. Yards	
	d.				
TRANSPORTER	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code UCR 10200			13. WASTE PROFILE NO. NA	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD				
	24-HOUR EMERGENCY NO. 575-887-5676				
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.				
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens (Chevron)		SIGNATURE 		DATE 3/29/22
	16. TRANSPORTER (1) NAME M MATA TRUCKING		17. TRANSPORTER (2) NAME		
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
DISPOSAL	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Javier Ponce		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME		
	SIGNATURE Javier Ponce DATE 3-29-22		SIGNATURE DATE		
	ADDRESS: 6063 US Hwy 285 Ola, TX 79770		PHONE:		
	PERMIT NO. 3360 Environmental Solutions		20. COMMENTS		
DISPOSAL	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE 		CELL NO. 51		DATE 3-29-22 TIME 3:43pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247837</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well _____	<u>Cotton Hills 23 26 27</u>
Address <u>5301 Lomas Dr.</u>	Name & No. _____	<u>Federal Com # 001 H</u>
City, State, Zip <u>Carlsbad, NM 88220</u>	County _____	
Phone No. <u>575-887-5676</u>	API No. _____	<u>30015415350001</u>
	Rig Name & No. _____	
	AFE/PO No. _____	<u>VCRE 10200</u>

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>(DB) CARLSBAD</u>
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY _____ B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lovey on behalf of Travis Stevens (Chevron) 3/29/22
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE

SIGNATURE

Transporter's Name AAA

Address _____

Phone No. _____

Driver's Name _____

Phone No. _____

Truck No. _____

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE 3-29-22

DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

IN: 1:56 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1Site Name/
Permit No.Red Bluff Facility / STF-065

Phone No.

432-448-4239

Address

5053 US Hwy 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 2

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ASCEP

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU										
Carlsbad, NM										
NO #CAR- 4931 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation APF 30013415352001								10. UNIT WT/Vol.	
	b.								11. Yards 20	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code UCRE 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
DISPOSAL SITE	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens (Chevron)					SIGNATURE				
						DATE				
TRANSPORTER	16. TRANSPORTER (1) NAME m nader haw					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT:					IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:					EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME Joseph L...					PRINTED/TYPED NAME					
SIGNATURE Joseph L... DATE 3/29/22					SIGNATURE DATE					
DISPOSAL SITE	ADDRESS: R360 Environmental Solutions 5053 IIS Hwy 285 Orla, TX 79770					PHONE:				
	PERMIT NO. Orla, TX 79770					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE M. Steph					CELL NO. 01		DATE 3-29-22		TIME 1:56 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

GENERATOR

NO. 247838

Permit/PPC No. _____

Lease/Well _____

Name & No. Cotton Hills 23 26 27County Federal Com # 001HAPI No. 3001541535001Rig Name & No. VCRF 10200

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____

Oil Based Cuttings _____

Waste Based Muds _____

Water Based Cuttings _____

Produced Formation Solids _____

Tank Bottoms _____

E&P Contaminated Soil 20 yards

Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)Jones Lovey on behalf of Travis
(PRINT) AUTHORIZED AGENTS SIGNATURE Stevens (Chevron)3/29/22
DATE

SIGNATURE

TRANSPORTER

Transporter's

Name M. Mata TruckingAddress WHP 7337

Phone No. _____

Driver's Name Ramon Ramirez

Phone No. _____

Truck No. 56WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 5:19 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D/

Site Name/

Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr) 7

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4935 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR'S CERTIFICATION:	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. <i>Soil Excavated during Spill Remediation API 30015415350001</i>									20
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Lost Code UCR# 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
TRANSPORTER'S CERTIFICATION:	PRINTED TYPED NAME <i>Jones Lovey on behalf of Travis Stevens (Chevron)</i>					SIGNATURE <i>[Signature]</i>		DATE 3/29/22		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Ramon Ramirez</i> SIGNATURE <i>Ramon Ramirez</i> DATE <i>3-29-22</i>				
DISPOSAL FACILITY'S CERTIFICATION:	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE <i>[Signature]</i>					CELL NO. D1		DATE 3-29-22		TIME 5:20 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247839

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal Cam # 001 14
 API No. 300154145350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens (Chevron)

(PRINT) AUTHORIZED AGENTS SIGNATURE

3/29/22

DATE

Javier Pown

SIGNATURE

TRANSPORTER

Transporter's Name M MATA TRUCKING
 Address HOBBS NM 88240
 Phone No. _____

Driver's Name Javier Pown
 Phone No. 575-441-0497
 Truck No. 109
 WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 5:32 pm OUT: _____Name/No. B1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU					
Carlsbad, NM					
NO #CAR- 4936 NON-HAZARDOUS WASTE MANIFEST				1. PAGE <u>1</u> OF <u>1</u>	
3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676		4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220		5. PICK-UP DATE 6.	
G E N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	
	a. <i>Soil Excavated during spill Remediation</i> <i>APT 30015415350001</i>			9. TOTAL QUANTITY 10. UNIT WT/Vol. <i>Yards</i> 11. <i>20</i>	
	b.				
	c.				
	d.				
12. COMMENTS OR SPECIAL INSTRUCTIONS: <i>Cost Code UCRE 10200</i>				13. WASTE PROFILE NO. <i>NA</i>	
14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD					
24-HOUR EMERGENCY NO. 575-887-5676					
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.					
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME <i>M MATA TRUCKING</i> IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Javier Poillon</i> SIGNATURE <i>Javier Poillon</i> DATE <i>3-29-22</i>			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____	
D I S P O S I T I O N S I T Y	ADDRESS: <i>R360 Environmental Solutions</i> <i>5053 US Hwy 285</i> <i>Orla, TX 79770</i>		PHONE:		
	PERMIT NO.			20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE <i>M. Stept</i>			CELL NO. <i>DI</i>		DATE <i>3-29-22</i>
			TIME <i>5:38</i>		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247841

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas DrCity, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well _____

Name & No. Cotton Hills 23 26 27County Federal Com # 001 H

API No. _____

Rig Name & No. 30015415350001AFE/PO No. UCBE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____

Oil Based Cuttings _____

Waste Based Muds _____

Water Based Cuttings _____

Produced Formation Solids _____

Tank Bottoms _____

E&P Contaminated Soil 20 yards

Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name M. MATH

Address _____

Phone No. _____

Driver's Name Jonah

Phone No. _____

Truck No. 7337

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 10:40 AM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. DI

Site Name/

Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading 50 micro roentgens? (Circle One)YES

NO

NORM (mR/hr) _____

TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

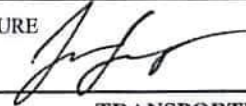
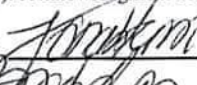
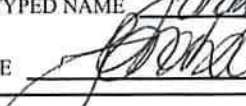
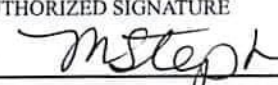
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4942 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation								10. UNIT WT/Vol.	
	APT 30015415350001								11. Yards	
TRANSPORTER	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME M MATA					17. TRANSPORTER (2) NAME				
DISPOSAL	IN CASE OF EMERGENCY CONTACT:					IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:					EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
	PRINTED/TYPED NAME 					PRINTED/TYPED NAME _____				
DISPOSAL	SIGNATURE 					SIGNATURE _____				
	DATE 3/30/22					DATE _____				
	ADDRESS: R360 Environmental Solutions					PHONE:				
	5053 US Hwy 285 Orla, TX 79770									
DISPOSAL	PERMIT NO.					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. DI		DATE 3-30-22		TIME 10:39 AM

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247842</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal com #001 H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCBE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>DB (CARLSBAD)</u>
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	<u>20</u> Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE (Chevron) DATE

[Signature]
 SIGNATURE

TRANSPORTER	
Transporter's Name <u>M MITA Trucking</u>	Driver's Name <u>Roberto A. MORA</u>
Address _____	Phone No. _____
Phone No. <u>7337</u>	Truck No. <u>04</u>
	WHP No. <u>337</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

<u>3/30/22</u> SHIPMENT DATE	<u>Roberto</u> DRIVER'S SIGNATURE	<u>3/30/22</u> DELIVERY DATE	<u>Roberto</u> DRIVER'S SIGNATURE
------------------------------	-----------------------------------	------------------------------	-----------------------------------

TRUCK TIME STAMP IN: <u>11:55 AM</u> OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>D1</u>
--	--------------------------	--------------------------------------

Site Name/Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	

NORM READINGS TAKEN? (Circle One)

☒ YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

☒ NO

NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____
	BS&W (%) _____

I hereby certify that the above load material has been (circle one):

☒ ACCEPTED

DENIED

If denied, why?

msteph
 NAME (PRINT)

3/30/22
 DATE

RCU R
 TITLE

MS
 SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM											
No #CAR- 4945 NON-HAZARDOUS WASTE MANIFEST					1. PAGE 1 OF 1		2. TRAILER NO.				
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE				
	PHONE NO. 575-887-5676			CITY CARLSBAD, NM			STATE 88220				
	6. ZIP			6.							
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.	
	a. Soil Excavated during spill Remediation									11. Yards	
	b. Apt 30015415350001									20	
	c.										
	d.										
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200							13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676											
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.											
TRANSPORTER	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE				DATE 3/30/22	
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME					
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material					
PRINTED/TYPED NAME M MATEU TRACKING					PRINTED/TYPED NAME Robert A MATEU						
SIGNATURE _____ DATE 3/30/22					SIGNATURE Robert A DATE 3/30/22						
DISPOSAL	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:			
	PERMIT NO.				20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
	AUTHORIZED SIGNATURE					CELL NO. DI		DATE 3/30/22		TIME 1:58 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247843

Operator No. _____

Operators Name Chevron CarlisbadAddress 5301 Lomas Dr.City, State, Zip Carlisbad, NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well Cotton Hills 2326 27Name & No. Federal com # 001 H

County _____

API No. 300154153 50001

Rig Name & No. _____

AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	(DB) CARLSBAD
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

20 yardsWASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

(Chevron)

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. Mata TruckingAddress WHP 7337

Phone No. _____

Driver's Name Ramon Ramirez

Phone No. _____

Truck No. 56

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 10:42 AM

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1Site Name/Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

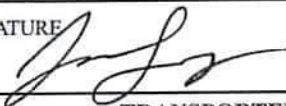
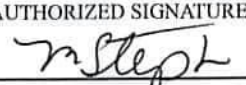
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4943 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil Excavated during Spill Remediation APT 30015415350001									20
	b.									
TRANSPORTER	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									24-HOUR EMERGENCY NO. 575-887-5676
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
DISPOSAL SITE	PRINTED TYPED NAME James Lovey on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME Ramon Ramirez SIGNATURE Ramon Ramirez DATE 3-30-22				
	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770					ADDRESS:			PHONE:	
PERMIT NO.					20. COMMENTS					
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
AUTHORIZED SIGNATURE 					CELL NO. DJ		DATE 1		TIME 10:41 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247844

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal Com #001 H
 API No. 30015415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	(DB) CARLSBAD
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lively on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE (Chevron) DATE

[Signature]
 SIGNATURE

TRANSPORTER

Transporter's Name MATA TRUCKING
 Address _____
 Phone No. _____

Driver's Name Eteban Tello
 Phone No. 970 401 5903
 Truck No. 7357
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 10:25 AM OUT: _____Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) 7

TANK BOTTOMS

1st Gauge _____
 2nd Gauge _____
 Received _____

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

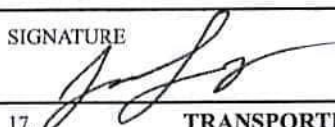
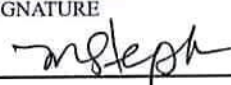
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM												
NO #CAR- <u>4941</u> NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.				
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.						
	PHONE NO. 575-887-5676											
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.		11. Yards
	a. Soil Excavated during Soil Remediation API - 30015415350001											20
	b.											
	c.											
R E C E I V E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRE 10200					13. WASTE PROFILE NO. NA						
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT											
	CHEVRON CARLSBAD					24-HOUR EMERGENCY NO. 575-887-5676						
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.											
T R A N S P O R T E R S	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 					DATE 3/30/22	
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME						
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: M. MATA					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Es-lebon Tello SIGNATURE Es-lebon Tello DATE 3-30-22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____						
D I S P O S I T I O N	R360 Environmental Solutions 5053 US Hwy 285 Orta, TX 79770		ADDRESS:				PHONE:					
	PERMIT NO.					20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 10:25 AM		

Disposal Site: Please complete Disposal Facility section at bottom of form and
 mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247845

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
Federal com # 001 H
 County _____
 API No. 30015415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____
 Oil Based Cuttings _____
 Waste Based Muds _____
 Water Based Cuttings _____
 Produced Formation Solids _____
 Tank Bottoms _____
 E&P Contaminated Soil 20 Yards
 Gas Plant Waste _____

NON-INJECTABLE WATERS
 Washout Water (Non-Injectable) _____
 Completion Fluid/Flow Back (Non-Injectable) _____
 Produced Water (Non-Injectable) _____
 Gathering Line Water/Waste (Non-Injectable) _____
 INTERNAL USE ONLY
 Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lovey on behalf of Travis Stevens
(PRINT) AUTHORIZED AGENTS SIGNATURE ChevronDATE 3/30/22SIGNATURE [Signature]

TRANSPORTER

Transporter's Name M MATA TRUCKING
 Address 40665 NM 88240
 Phone No. _____

Driver's Name Javier Pohlen
 Phone No. 575 441-0497
 Truck No. 109
 WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 10:22 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 7

TANK BOTTOMS

1st Gauge _____
 2nd Gauge _____
 Received _____

Feet	Inches	BS&W Received	BS&W (%)
		Free Water	
		Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

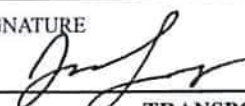
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4940 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during spill Remediation								10. UNIT WT/Vol. Yards	
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: cost code UCRFE 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
TRANSPORTER	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME M MATA TRUCKING					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Sauri Polvan SIGNATURE Sauri Polvan DATE 3-30-22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
DISPOSAL	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:		
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 				CELL NO. D1		DATE 3/30/22		TIME 10:22 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247846
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr</u>	County <u>Federal com # 001 H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) CARLSBAD
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

(Chevron)

DATE

SIGNATURE

TRANSPORTER	
Transporter's Name <u>MATA TRUCKING</u>	Driver's Name <u>Roberto A. Muñoz</u>
Address _____	Phone No. _____
Phone No. _____	Truck No. <u>01</u>
	WHP No. <u>1331</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 3/30/22DRIVER'S SIGNATURE Roberto A. MuñozDELIVERY DATE 3/30/22DRIVER'S SIGNATURE Roberto A. Muñoz

TRUCK TIME STAMP IN: <u>9:59 AM</u> OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>pl</u>
---	--------------------------	---

 Site Name/Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770
Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) 7

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____
Feet _____	BS&W (%) _____
Inches _____	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT) nglajhDATE 03-30-22TITLE PerkSIGNATURE ms

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/ Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinseate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinseate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU										
Carlsbad, NM										
NO #CAR: 4939 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil Excavated during Spill Remediation APE 300154 t5350001									20
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCAE 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676									
TRANSPORTER	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE DATE 3/30/22				
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
DISPOSAL SITE	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
	PRINTED/TYPED NAME MATE TRUCKING					PRINTED/TYPED NAME ROBERTO A. MARTINEZ				
	SIGNATURE _____ DATE 3/30/22					SIGNATURE Roberto DATE 3/30/22				
DISPOSAL SITE	360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE					CELL NO. D1		DATE 3/30/22		TIME 10:08 AM

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247848
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Com # 001 H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>3001541535 0001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 102000</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) CARLSBAD
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER	
Transporter's Name <u>MATA TRUCKING</u>	Driver's Name <u>Javier Pavaon</u>
Address <u>HOBBS NM 88240</u>	Phone No. <u>575 411-0497</u>
	Truck No. <u>109</u>
Phone No. _____	WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE Javier Pavaon DRIVER'S SIGNATURE 03/30/22 DELIVERY DATE Javier Pavaon DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: <u>12:22pm</u> OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>D)</u>
---	--------------------------	---

Site Name/Permit No. Red Bluff Facility / STF-065

Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) 7

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____
	BS&W (%) _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is generated at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

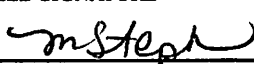
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM												
NO #CAR- 4946 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.				
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE					
	PHONE NO. 575-887-5676			CITY CARLSBAD, NM			STATE NM			ZIP 88220		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.	
	a. 50:1 Excavated during spill Remediation										11. Yards 20	
	b.											
	c.											
d.												
TRANSPORTER	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200						13. WASTE PROFILE NO. NA					
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT											
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676					
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.											
DISPOSAL	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 			DATE 3/30/22			
	16. TRANSPORTER (1) NAME FX MATA TRUCKING					17. TRANSPORTER (2) NAME						
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Javier SIGNATURE Javier Roven DATE 3-30-22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____						
DISPOSAL	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:				
	PERMIT NO.				20. COMMENTS							
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
	AUTHORIZED SIGNATURE 					CELL NO. 01		DATE 3-30-22		TIME 12:22 pm		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247849

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well _____

Name & No. Cotton Hills 23 26 27County Federal com # 0014API No. 3061541535001Rig Name & No. UCRE 10200

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____
 Oil Based Cuttings _____
 Waste Based Muds _____
 Water Based Cuttings _____
 Produced Formation Solids _____
 Tank Bottoms _____
 E&P Contaminated Soil 20 yards
 Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

DB (CARLSBAD)WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.



RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)



RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Mata Trucking

Address

WHP 7337

Phone No. _____

Driver's Name

Ramon Ramirez

Phone No. _____

Truck No. 56WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 12:50 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D

Site Name/

Permit No.

Red Bluff Facility / STF-065

Address

5053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr) 7

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/ Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4949 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No.	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil Excavated during Spill Remediation									20
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
T R A N S P O R T E R S	PRINTED TYPED NAME James Lacey on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME Ramon Ramirez SIGNATURE Ramon Ramirez DATE 3-30-22				
D I S P O S I T I O N A L S I T E	ADDRESS: 5053 US Hwy 285 Orla, TX 79770			PHONE:						
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 12:56 PM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4



TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Trawis Stevens

Phone No. _____

(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 247850

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well

Name & No. Cotton Hills 23 26 27County Federal Com #001 HAPI No. 30015415350001

Rig Name & No. _____

AFE/PO No. JCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____

Oil Based Cuttings _____

Waste Based Muds _____

Water Based Cuttings _____

Produced Formation Solids _____

Tank Bottoms _____

E&P Contaminated Soil 20 yards

Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name M. MATA TRUCKING

Address _____

Phone No. _____

Driver's Name Alfonso Muñoz

Phone No. _____

Truck No. 02WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE 3-30-22

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 11:50 am OUT: _____Name/No. D1

Site Name/

Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) _____

TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? _____

NAME (PRINT) JosephDATE 3-30-22TITLE pcvrSIGNATURE ms

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

- Oil Based Mud
 - Oil Based Drilling fluids
 - Off Shore Oil Based Drilling fluids
- Oil Based Cuttings
 - Oil Based Drill cuttings
 - Offshore Oil Based cuttings
- Water Based Mud
 - Water Based Drilling fluids
 - Offshore Water Based Drilling fluids
- Water Based Cuttings
 - Water Based Drill cuttings
 - Offshore Water Based cuttings
- Produced Formation Sand and Solids
 - Hydrogen sulfide abatement wastes from geothermal energy production
 - Workover wastes
 - Produced sand
 - Constituents removed from produced water before it is injected
- Tank Bottoms
 - Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
 - Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
 - Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
 - Constituents removed from produced water before it is injected or otherwise disposed of
 - Liquid hydrocarbons removed from the production stream but not from oil refining
 - Waste crude oil from primary field operations

- E&P Contaminated Soil
 - On-Lease oil spill
- Wash Out Water
 - Rigwash
 - Cooling tower blowdown
- Completion Fluids/Flowback
 - Well completion, treatment, and stimulation fluids, and frac proppant
 - Packing fluids
- Produced Water
 - Produced water
 - Geothermal Production Fluids
 - Materials ejected from a producing well during blowdown
- Gathering Line Water/Waste
 - Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
 - Pigging wastes from gathering lines
- Gas Plant Waste
 - Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
 - Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
 - Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
 - Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU										
Carlsbad, NM										
NO #CAR- 4944 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil Excavated during Spill Remediation APR 30015415350601									20
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676									
TRANSPORTER	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE				
						DATE 3/30/22				
DISPOSAL	16. TRANSPORTER (1) NAME EL FORTY 5 LLC TRUCK # 02 P.O. Box 3062 Hobbes NM 88241					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Alfonso ruiz					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME				
	SIGNATURE DATE 3-30-22					SIGNATURE DATE				
DISPOSAL	360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE					CELL NO. D1		DATE 03-30-22		TIME 11:51 AM

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247851

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal (cm # 001 H)
 API No. 36015415350001
 Rig Name & No. UCRE 16200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>DB (CARLSBAD)</u>
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE DATE

TRANSPORTER

Transporter's Name MMA
 Address WHP 7337
 Phone No. _____

Driver's Name Jonella
 Phone No. _____
 Truck No. 01
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 12:54 PM OUT: _____Name/No. DJ

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number.

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

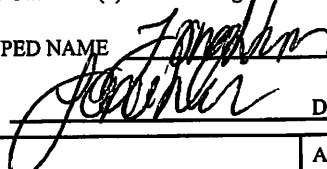
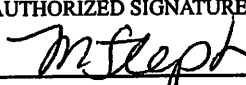
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON										
MCBU										
Carlsbad, NM										
No #CAR- 4948 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation APT 30015415350001								10. UNIT WT/Vol.	
	b.								11. Yards	
	c.								20	
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD								24-HOUR EMERGENCY NO. 575-887-5676	
O	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE  DATE 3/30/22				
	16. TRANSPORTER (1) NAME M MATA IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
R	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jonathan SIGNATURE  DATE 3/30/22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
	ADDRESS: 160 Environmental Solutions 5053 US Hwy 286 Orla, TX 79770					PHONE:				
DISPOSAL	PERMIT NO.					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 12:54 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247852</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Com # 001 #</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) CARLSBAD
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCIP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Loney on behalf of Travis Stevens (Chevron) 3/30/22 [Signature]

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER	
Transporter's Name <u>M. MATA</u>	Driver's Name <u>Esteban Tello</u>
Address _____	Phone No. <u>979 901 5903</u>
Phone No. _____	Truck No. <u>107</u>
	WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 3/30/22 DRIVER'S SIGNATURE Esteban Tello DELIVERY DATE 3/30/22 DRIVER'S SIGNATURE Esteban Tello

TRUCK TIME STAMP IN: <u>12:24 pm</u> OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>D1</u>
--	--------------------------	--------------------------------------

Site Name/ Permit No. Red Bluff Facility / STF-065 Phone No. 432-448-4239

Address 5053 US Hwy 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____

I hereby certify that the above load material has been (circle one):

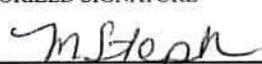
ACCEPTED

DENIED

If denied, why?

[Signature] 3/30/22 RCVE ms

NAME (PRINT) DATE TITLE SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4947 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR'S CERTIFICATION:	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No.	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil Excavated during Spill Remediation APT 300 1541535001									20
	b.									
TRANSPORTER'S CERTIFICATION:	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Lost Code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
DISPOSAL FACILITY'S CERTIFICATION:	PRINTED TYPED NAME Jane Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: M. MATA					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Esteban Telb					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____				
	SIGNATURE Esteban Telb DATE 3-30-22					SIGNATURE _____ DATE _____				
DISPOSAL FACILITY'S CERTIFICATION:	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:		
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. D1	DATE 03/30/22	TIME 12:24pm		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247853

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Cotton Hills 23 26 27
 Name & No. Federal Com # 001 H
 County _____
 API No. 3005415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	(OB) Carlsbad
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

Transporter's Name

Address

Phone No.

TRANSPORTER

Driver's Name

Phone No.

Truck No.

WHP No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 289 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1Site Name/
Permit No.Red Bluff Facility / STF-065

Address

5053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr) 7

TANK BOTTOMS

1st Gauge
2nd Gauge
Received

Feet

Inches

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

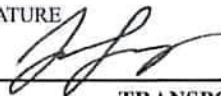
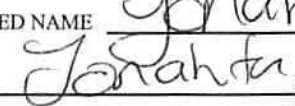
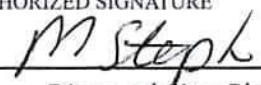
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON											
MCBU											
Carlsbad, NM											
NO #CAR- 4902 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.			
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE				
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.				
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY		
	a. Soil excavated during Spill Remediation								10. UNIT WT/Vol.		
	API 30015415350001								11. Yards 20		
TRANSPORTER	b.										
	c.										
	d.										
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRI 10200						13. WASTE PROFILE NO. NA				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676				
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
	PRINTED TYPED NAME James Lovey on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22			
	16. TRANSPORTER (1) NAME MAMA					17. TRANSPORTER (2) NAME					
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jonah					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME					
SIGNATURE  DATE 3/30/22					SIGNATURE DATE						
DISPOSAL	3360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:				
	PERMIT NO.			20. COMMENTS							
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 2:59	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247853

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Cotton Hills 23 26 27
 Name & No. Federal Com # 001 H
 County _____
 API No. 3005415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	(DB) (Carlsbad)	
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's Name MAA TA
 Address 7337
 Phone No. _____

Driver's Name Jonchito
 Phone No. _____
 Truck No. SE
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 289 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

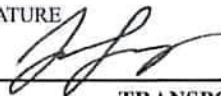
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4902 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. Yards
	a. Soil excavated during Spill Remediation API 30015415350001									20
	b.									
TRANSPORTER	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRI 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									24-HOUR EMERGENCY NO. 575-887-5676
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
DISPOSAL	PRINTED TYPED NAME James Lovey on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME MAMA					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jonah					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME				
	SIGNATURE Jonah DATE 3/30/22					SIGNATURE DATE				
DISPOSAL	3360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:		
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE M Steph					CELL NO. 01	DATE 3/30/22	TIME 2:59		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247854
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Cam # 001 H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) Carlsbad
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	20 Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE

TRANSPORTER	
Transporter's Name <u>MATA</u>	Driver's Name <u>Eatman Jello</u>
Address _____	Phone No. <u>970 441 5903</u>
Phone No. _____	Truck No. <u>104</u>
	WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE _____	DRIVER'S SIGNATURE <u>Eatman Jello</u>
TRUCK TIME STAMP		DISPOSAL FACILITY	
IN: <u>2:39 PM</u> OUT: _____		RECEIVING AREA	
		Name/No. <u>D1</u>	

Site Name/Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) <u>YES</u> NO	If YES, was reading > 50 micro roentgens? (Circle One) YES <u>NO</u>
	NORM (mR/hr) _____

TANK BOTTOMS			
1st Gauge	Feet	Inches	BS&W Received
2nd Gauge			Free Water
Received			Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

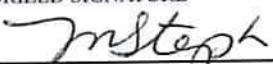
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU										
Carlsbad, NM										
NO #CAR- 4903 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676			4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil excavated during spill Remediation								10. UNIT WT/Vol.	
	b.								11. Yards	
	c.								20	
	d.									
12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRT 10200							13. WASTE PROFILE NO. NA			
14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676				
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: Mr. MATA					17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Esteban Tello SIGNATURE Esteban Tello DATE 3-30-22					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
	DISPOSAL SITE: 360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770					ADDRESS:				
	PERMIT NO.					PHONE:				
D I S P O S I T I O N	20. COMMENTS					21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 2:39

Disposal Site: Please complete Disposal Facility section at bottom of form and
 mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247855

Operator No. _____

Operators Name Chevron Carlsbad

Address 5301 Lomas Dr.

City, State, Zip Carlsbad, NM 88220

Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well Cotton Hills 23 26 27

Name & No. Federal com # 001 H

County _____

API No. 30015415350001

Rig Name & No. _____

AFE/PO No. UCBE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Belly</u> <u>(DB) CARLSBAD</u>
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Jones Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. MATA TORRES

Address HOBBS NM 88240

Phone No. _____

Driver's Name Javier Poyon

Phone No. 575-441-04-97

Truck No. 109

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

Javier Poyon

DRIVER'S SIGNATURE

DELIVERY DATE

03/30/22

DRIVER'S SIGNATURE

Javier Poyon

TRUCK TIME STAMP

IN 2:37 PM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D-1

Site Name/ Permit No. Red Bluff Facility / STF-065

Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received		BS&W (%)
Free Water		
Total Received		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Heide Calderon

(NAME PRINT)

DATE

3/30/22Rec

TITLE

J. Calderon

SIGNATURE

CHEVRON MCBU Carlsbad, NM					
NO #CAR- 4904 NON-HAZARDOUS WASTE MANIFEST				1. PAGE <u>1</u> OF <u>1</u>	
3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.		5. PICK-UP DATE	
PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220		6.	
GENERATOR	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	
	a. <i>Soil excavated during spill Remediation API 30015415350001</i>			9. TOTAL QUANTITY	
	b.			10. UNIT WT/Vol.	
	c.			11. Yards	
	d.				
TRANSPORTER	12. COMMENTS OR SPECIAL INSTRUCTIONS: <i>Cost code UCRT 10200</i>			13. WASTE PROFILE NO. <i>NA</i>	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676				
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.				
	PRINTED TYPED NAME <i>James Lovely on behalf of Travis Stevens</i>		SIGNATURE 		DATE <i>3/30/22</i>
DISPOSAL	16. TRANSPORTER (1) NAME <i>M MATA TRUCKING</i>		17. TRANSPORTER (2) NAME		
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Javier Pohlen</i>		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME		
	SIGNATURE <i>Javier Pohlen</i> DATE <i>3/30/2022</i>		SIGNATURE DATE		
DISPOSAL	ADDRESS: R360 Environmental Solutions - Red Bluff		PHONE:		
	PERMIT NO. 5053 US Highway 285 Orla, TX 79770 432-448-4239		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
DISPOSAL	AUTHORIZED SIGNATURE 		CELL NO.		DATE <i>3/30/22</i> TIME <i>2:37PM</i>

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO.
Operator No.	_____	247856
Operators Name	<u>Chevron Carlsbad</u>	
Address	<u>5301 Lomas Dr.</u>	
City, State, Zip	<u>Carlsbad, NM 88220</u>	
Phone No.	<u>575-887-5676</u>	
Permit/PPC No.	_____	<u>Cotton Hills 23 26 27</u> <u>Federal com #001 H</u> <u>30015415350001</u> <u>UCRE 10200</u>
Lease/Well Name & No.	_____	
County	_____	
API No.	_____	
Rig Name & No.	_____	
AFE/PO No.	_____	_____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	NON-INJECTABLE WATERS Washout Water (Non-Injectable) _____ Completion Fluid/Flow Back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ INTERNAL USE ONLY Truck Washout (exempt waste) _____ OTHER EXEMPT WASTES (type and generation process of the waste) <u>DB (Carlsbad)</u>
Oil Based Cuttings	_____	
Waste Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	<u>20 yards</u>	
Gas Plant Waste	_____	
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other	_____ *please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	Y-YARDS	E-EACH
		<u>20</u>	

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE

[Signature]
SIGNATURE

TRANSPORTER	
Transporter's Name	<u>M. Mata Trucking</u>
Address	<u>WHP 7337</u>
Phone No.	_____
Driver's Name	<u>Ramon Ramirez</u>
Phone No.	<u>56</u>
Truck No.	_____
WHP No.	_____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
<u>3-30-22</u>	<u>Ramon Ramirez</u>	<u>3-30-22</u>	<u>Ramon Ramirez</u>

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: <u>30 Spn</u> OUT: _____		Name/No. <u>D/</u>

Site Name/Permit No.	<u>Red Bluff Facility / STF-065</u>	Phone No.	<u>432-448-4239</u>
Address	<u>5053 US Hwy 285, Orla, TX 79770</u>		

NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge	_____
2nd Gauge	_____
Received	_____
BS&W Received	_____
Free Water	_____
Total Received	_____

I hereby certify that the above material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4907 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. <u>Yards</u>
	a. <u>Soil excavated during spill Remediation</u> <u>APT 30015415350001</u>									<u>20</u>
	b.									
	c.									
TRANSPORTER	12. COMMENTS OR SPECIAL INSTRUCTIONS: <u>Cost Code UCR# 10200</u>						13. WASTE PROFILE NO. <u>NA</u>			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
TRANSPORTER	PRINTED TYPED NAME <u>James Lovely on</u> <u>behalf of Travis Stevens</u>					SIGNATURE <u>[Signature]</u>		DATE <u>3/30/22</u>		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME <u>M. Mata J.</u>				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME <u>Ramon Ramirez</u> SIGNATURE <u>Ramon Ramirez</u> DATE <u>3-30-22</u>				
DISPOSAL SITE	360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:		
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE <u>[Signature]</u>				CELL NO. <u>DJ</u>		DATE <u>3/30/22</u>		TIME <u>3:05 pm</u>	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man: Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247857

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal con # 001 H
 API No. 30015415350001
 Rig Name & No. UCRF 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY _____ B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Larey on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE DATE

SIGNATURE

TRANSPORTER

Transporter's Name NO MATO TRUCKING
 Address _____
 Phone No. _____

Driver's Name ROBERTO A. MENDOZA
 Phone No. _____
 Truck No. 01
 WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 3/30/22DRIVER'S SIGNATURE RobertoDELIVERY DATE 3/30/22DRIVER'S SIGNATURE Roberto

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 2:03 pm OUT: _____Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT) MS StephDATE 3-30-22TITLE RCIRSIGNATURE ms

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4905 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.			
	PHONE NO. 575-887-5676									
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil excavated during spill Remediation API 30015415330001								10. UNIT WT/Vol.	
	b.								11. Yards 20	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Lost code UCRJ 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD									
24-HOUR EMERGENCY NO. 575-887-5676										
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <u>M MITCHELL TRUCKING</u>					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME <u>ROBERTO A. MUÑOZ</u>				
	SIGNATURE _____ DATE <u>3/30/22</u>					SIGNATURE <u>Roberto</u> DATE <u>3/30/22</u>				
D I S P O S I T I O N S I T Y	ADDRESS: R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			PHONE:						
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE <u>M Steph</u>					CELL NO. D1		DATE 03/30/22		TIME 2:03pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
 mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247858
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27 Federal com # 001 H</u>	
Address <u>5301 Lomas Dr.</u>	County _____	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	DB (CARLSBAD)
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	20 Y-YARDS	E-EACH
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I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

James Lovejoy on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE Chevron DATE

TRANSPORTER	
Transporter's Name <u>M. Mata Trucking</u>	Driver's Name <u>Alfonso MUAOZ</u>
Address _____	Phone No. _____
Phone No. _____	Truck No. <u>02</u>
	WHP No. <u>7337</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE <u>3-30-22</u>	DRIVER'S SIGNATURE _____
TRUCK TIME STAMP IN: <u>2:07 pm</u> OUT: _____		DISPOSAL FACILITY	
		RECEIVING AREA Name/No. <u>D1</u>	

Site Name/Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) YES NO	If YES, was reading > 50 micro roentgens? (Circle One) YES NO
	NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____

I hereby certify that the above load material has been (circle one): ACCEPTED 3/30/22 RECEIVED MsSteph
 NAME (PRINT) DATE TITLE SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4906 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR'S CERTIFICATION:	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY CARLSBAD, NM			STATE 88220			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No.	9. TOTAL QUANTITY	10. UNIT WT/Vol.	
	a. Soil Excavated during SPILL Remediation API 30015415350001								11. Yards 20	
	b.									
TRANSPORTER'S CERTIFICATION:	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRI 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
DISPOSAL FACILITY'S CERTIFICATION:	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME CH FORTY 5 LLC TRUCK # 02					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: P.O. Box 3062 Hobbs, NM 88241 M. NATA TRUCKING					IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:					EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME ALFONSO MUNOZ					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME				
SIGNATURE  DATE 3-30-22					SIGNATURE DATE					
DISPOSAL FACILITY'S CERTIFICATION:	2360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. DL		DATE 3/30/22		TIME 2:07 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Travis Stevens

Phone No. _____



(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 247859

Operator No. _____

Operators Name Chevron Carlsbad
Address 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220
Phone No. 575-887-5676Permit/PPC No. _____
Lease/Well Name & No. Cotton Hills 23 26 27
County Federal Com # 001 H
API No. 36015415350001
Rig Name & No. _____
AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	(OB) CARLSBAD
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lively on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE

TRANSPORTER

Transporter's Name M. Mata Trucking
Address W hp 7337
Phone No. _____Driver's Name Ramon Ramirez
Phone No. _____
Truck No. 56
WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 4:45pm OUT: _____Name/No. D1Site Name/ Permit No. Red Bluff Facility / STF-065
Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4913 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during spill Remediation APT 30015415350001								10. UNIT WT/Vol.	
	b.								11. Yards 20	
TRANSPORTER	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
DISPOSAL SITE	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 			DATE 3/30/22	
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material					
PRINTED/TYPED NAME _____					PRINTED/TYPED NAME Ramon Ramirez					
SIGNATURE _____ DATE _____					SIGNATURE Ramon Ramirez DATE 3-30-22					
60 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770				ADDRESS:				PHONE:		
PERMIT NO.				20. COMMENTS						
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 03-30-22		TIME 4:45	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Travis Stevens

Phone No. _____



(PLEASE PRINT)

REQUIRED INFORMATION

GENERATOR

NO. 247859

Operator No. _____

Operators Name Chevron Carlsbad
Address 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220
Phone No. 575-887-5676Permit/PPC No. _____
Lease/Well Name & No. Cotton Hills 23 26 27
County Federal Com # 001 H
API No. 36015415350001
Rig Name & No. _____
AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	(OB) CARLSBAD
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lively on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE

TRANSPORTER

Transporter's Name M. Mata Trucking
Address W hp 7337
Phone No. _____Driver's Name Ramon Ramirez
Phone No. 56
Truck No. _____
WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 4:45pm OUT: _____Name/No. D1Site Name/ Permit No. Red Bluff Facility / STF-065
Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4913 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation APT 30015415350001								10. UNIT WT/Vol.	
	b.								11. Yards 20	
TRANSPORTER	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
DISPOSAL SITE	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 				
						DATE 3/30/22				
DISPOSAL SITE	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME _____					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME Ramon Ramirez				
	SIGNATURE _____ DATE _____					SIGNATURE Ramon Ramirez DATE 3-30-22				
DISPOSAL SITE	60 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 03-30-22		TIME 4:45

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

GENERATOR

NO. 247860

Permit/PPC No. _____

Lease/Well _____

Name & No. Cotton Hills 23 26 27County Federal com # 001 HAPI No. 3005415356001Rig Name & No. VCR E 10200

AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____

Oil Based Cuttings _____

Waste Based Muds _____

Water Based Cuttings _____

Produced Formation Solids _____

Tank Bottoms _____

E&P Contaminated Soil 20 yards

Gas Plant Waste _____

NON-INJECTABLE WATERS

Washout Water (Non-Injectable) _____

Completion Fluid/Flow Back (Non-Injectable) _____

Produced Water (Non-Injectable) _____

Gathering Line Water/Waste (Non-Injectable) _____

INTERNAL USE ONLY

Truck Washout (exempt waste) _____

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's Name M MATA

Address _____

Phone No. _____

TRANSPORTER

Driver's Name Jordan

Phone No. _____

Truck No. 01WHP No. 7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE 3/30/22

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 4:39 pm OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 01

Site Name/

Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 2

TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

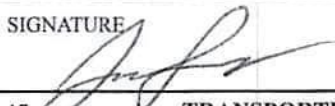
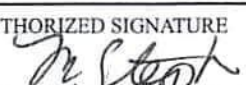
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4912 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11. <i>kds</i>
	a. <i>Soil excavated during spill Remediation</i>									<i>20</i>
	b.									
TRANSPORTER	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: <i>Cost code 10200</i>						13. WASTE PROFILE NO. <i>NA</i>			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
TRANSPORTER	PRINTED TYPED NAME <i>James lovely on behalf of Travis Sterens</i>					SIGNATURE 		DATE <i>3/30/22</i>		
	16. TRANSPORTER (1) NAME <i>NA NA 7A</i>					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Jorahita</i>					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME				
	SIGNATURE <i>Jorahita</i> DATE <i>3/30/22</i>					SIGNATURE DATE				
DISPOSAL SITE	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. <i>DL</i>		DATE <i>12-30-22</i>	TIME <i>4:39</i>	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247861
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Com # 001 H</u>	
City, State, Zip <u>Carlsbad NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) CARLSBAD
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	20 Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Jones Lovely on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE (Chevron) DATE

[Signature]
SIGNATURE

TRANSPORTER	
Transporter's Name <u>Minute Trucking</u>	Driver's Name <u>Andrew Hill</u>
Address _____	Phone No. _____
Phone No. <u>Whmp</u>	Truck No. <u>127337</u>
	WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE _____	DRIVER'S SIGNATURE _____
TRUCK TIME STAMP IN: <u>4:41 pm</u> OUT: _____		DISPOSAL FACILITY	
		RECEIVING AREA Name/No. <u>D1</u>	

Site Name/ Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) <u>YES</u> NO	If YES, was reading > 50 micro roentgens? (Circle One) YES <u>NO</u>
	NORM (mR/hr) _____

TANK BOTTOMS			
1st Gauge	Feet	Inches	BS&W Received
2nd Gauge			Free Water
Received			Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

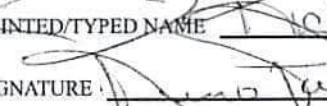
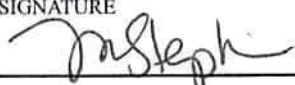
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON											
MCBU											
Carlsbad, NM											
NO #CAR- 4915 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.			
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE				
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.				
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY		
	a. Soil excavated during spill Remediation APT 30013415330001								10. UNIT WT/Vol.		
	b.								11. Yards		
	c.										
	d.										
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676				
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
T R A N S P O R T E R S	PRINTED TYPED NAME Jane Lovey on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22			
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME					
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Travis Stevens					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME Jane Lovey					
D I S P O S I T I O N	SIGNATURE  DATE 3-30-22					SIGNATURE  DATE 3-30-22					
	ADDRESS:					PHONE:					
	PERMIT NO.					20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
A U T H O R I Z E D	AUTHORIZED SIGNATURE 					CELL NO. 01		DATE 03/30/22		TIME 4:41	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247862</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Can # 0014</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	(DB) CARLSBAD
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	<u>20</u> Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lavelly on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE Chevron DATE

TRANSPORTER	
Transporter's Name _____	Driver's Name <u>Eskbar Tello</u>
Address <u>M. Mack</u>	Phone No. <u>970 401 5903</u>
Phone No. _____	Truck No. <u>109</u>
	WHP No. <u>733</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE _____	DRIVER'S SIGNATURE <u>Eskbar Tello</u>
TRUCK TIME STAMP IN: <u>4:34 pm</u> OUT: _____		DISPOSAL FACILITY	
		RECEIVING AREA Name/No. <u>DJ</u>	

Site Name/ Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) <u>YES</u> NO	If YES, was reading > 50 micro roentgens? (Circle One) YES <u>NO</u>
	NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____
	BS&W (%) _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

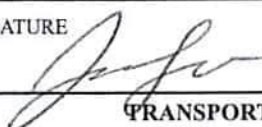
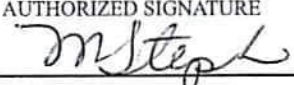
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM														
NO #CAR- 4911 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.						
G E N E R A T O R T R A N S P O R T E R D I S P O S I T Y	3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE								
	PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220			6.								
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.				
	a. Soil Excavated during Spill Remediation API 30015415350001									11. Yards 20				
	b.													
	c.													
	d.													
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200							13. WASTE PROFILE NO. NA						
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD													
	24-HOUR EMERGENCY NO. 575-887-5676													
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.														
PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 					DATE 3/30/22				
16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME									
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: M. MATA					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:									
18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material									
PRINTED/TYPED NAME Esteban Jello					PRINTED/TYPED NAME _____									
SIGNATURE Esteban Jello DATE 3-30-22					SIGNATURE _____					DATE _____				
360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:				PHONE:							
PERMIT NO.			20. COMMENTS											
21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.														
AUTHORIZED SIGNATURE 					CELL NO. DI		DATE 3-30-22		TIME 4:34					

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247862</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Can # 0014</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>(DB) CARLSBAD</u>
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	<u>20</u> Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lavelly on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE Chevron DATE

TRANSPORTER	
Transporter's Name _____	Driver's Name <u>Eskbar Tello</u>
Address <u>M. Mack</u>	Phone No. <u>970 401 5903</u>
Phone No. _____	Truck No. <u>109</u>
	WHP No. <u>733</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE _____	DRIVER'S SIGNATURE <u>Eskbar Tello</u>
TRUCK TIME STAMP IN: <u>4:34 pm</u> OUT: _____		DISPOSAL FACILITY	
		RECEIVING AREA Name/No. <u>DJ</u>	

Site Name/ Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) <u>YES</u> NO	If YES, was reading > 50 micro roentgens? (Circle One) YES <u>NO</u>
	NORM (mR/hr) _____

TANK BOTTOMS	
1st Gauge _____	BS&W Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____
	BS&W (%) _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

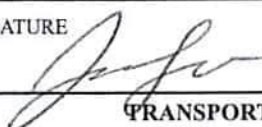
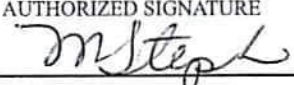
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM											
NO #CAR- 4911 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.			
G E N E R A T O R T R A N S P O R T E R D I S P O S I T Y	3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE					
	PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220			6.					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.	
	a. Soil Excavated during Spill Remediation APE 30015415350001									11. Yards 20	
	b.										
	c.										
	d.										
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD										
	24-HOUR EMERGENCY NO. 575-887-5676										
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.											
PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 			DATE 3/30/22			
16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME						
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: A. MATA					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Esteban Jello					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____						
SIGNATURE Esteban Jello DATE 3-30-22					SIGNATURE _____ DATE _____						
360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:					
PERMIT NO.			20. COMMENTS								
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 03-30-22		TIME 4:34		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247863

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well Cotton Hills 23 26 27Name & No. Federal Com # 001H

County _____

API No. 30015415350001

Rig Name & No. _____

AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	(DB) CARLSBAD
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY _____ B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)James Lorely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M MATA TRUCKINGAddress Hobbs NM 88240

Phone No. _____

Driver's Name Javier Pohlen

Phone No. _____

Truck No. 109

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

Javier Pohlen

DRIVER'S SIGNATURE

DELIVERY DATE

Javier Pohlen

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 4:34 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D/Site Name/ Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4910 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
GENERATOR'S CERTIFICATION	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation								10. UNIT	
	API 30015415350001								11. Yards	
	b.									
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676										
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE DATE 3/30/22					
TRANSPORTER'S CERTIFICATION	16. TRANSPORTER (1) NAME M MATA TRUCKING					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT:					IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:					EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME Javier Pown					PRINTED/TYPED NAME _____					
SIGNATURE Javier Pown DATE 3/30/22					SIGNATURE _____ DATE _____					
DISPOSAL SITE	ADDRESS: 360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			PHONE:						
	PERMIT NO.				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
AUTHORIZED SIGNATURE					CELL NO. D1		DATE 3/30/22		TIME 4:34	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247863

Operator No. _____

Operators Name Chevron CarlsbadAddress 5301 Lomas Dr.City, State, Zip Carlsbad, NM 88220Phone No. 575-887-5676

Permit/PPC No. _____

Lease/Well Cotton Hills 23 26 27Name & No. Federal Com # 0014

County _____

API No. 30015415350001

Rig Name & No. _____

AFE/PO No. UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	(DB) CARLSBAD
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY _____ B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lorely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M MATA TRUCKINGAddress Hobbs NM 88240

Phone No. _____

Driver's Name Javier Pohlen

Phone No. _____

Truck No. 109

WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

Javier Pohlen

DRIVER'S SIGNATURE

DELIVERY DATE

Javier Pohlen

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 4:34 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D/Site Name/ Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 7

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

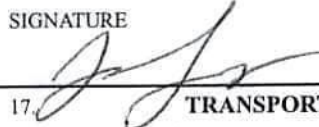
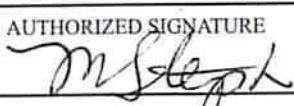
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU Carlsbad, NM												
NO #CAR- 4910 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.				
G E N E R A T O R T R A N S P O R T E R D I S P O S I T I O N A L S I T E	3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676		4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.						
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WT/Vol.		11. Yards
	a. Soil Excavated during Spill Remediation API 30015415350001											20
	b.											
	c.											
d.												
12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code 10200								13. WASTE PROFILE NO. NA				
14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD												
										24-HOUR EMERGENCY NO. 575-887-5676		
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.												
PRINTED TYPED NAME James Lovely on behalf of Travis Stevens						SIGNATURE 			DATE 3/30/22			
16. TRANSPORTER (1) NAME M MATA TRUCKING						17. TRANSPORTER (2) NAME						
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Javier Pown						19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME						
SIGNATURE Javier Pown DATE 3/30/22						SIGNATURE DATE						
ADDRESS: 360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770						PHONE:						
PERMIT NO.						20. COMMENTS						
21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.												
AUTHORIZED SIGNATURE 						CELL NO. DJ		DATE 3/30/22		TIME 4:34		

Disposal Site: Please complete Disposal Facility section at bottom of form and
 mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name

Address

City, State, Zip

Phone No.

GENERATOR

NO.

247865

Permit/PPC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

Cotton Hills 23 26 27
Federal Cam #001H

30015415350001

VCRF 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds

Oil Based Cuttings

Waste Based Muds

Water Based Cuttings

Produced Formation Solids

Tank Bottoms

E&P Contaminated Soil

Gas Plant Waste

NON-INJECTABLE WATERS

Washout Water (Non-Injectable)

Completion Fluid/Flow Back (Non-Injectable)

Produced Water (Non-Injectable)

Gathering Line Water/Waste (Non-Injectable)

INTERNAL USE ONLY

Truck Washout (exempt waste)

OTHER EXEMPT WASTES (type and generation process of the waste)

(DB) CARLSBAD

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Phone No.

Truck No.

WHP No.

Alfonso Munoz

02

7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 4:17pm OUT: _____

Name/No.

DI

Site Name/

Permit No.

Address

Red Bluff Facility / STF-065

5053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr)

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

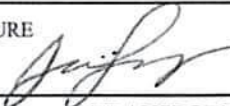
If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

CHEVRON MCBU										
Carlsbad, NM										
NO #CAR- 4908 NON-HAZARDOUS WASTE MANIFEST						1. PAGE 1 OF 1		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil excavated during spill Remediation APT 3001541535001								10. UNIT Yards	
	b.								11. 20	
T R A N S P O R T E R S	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code UCRT 10200						13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT CHEVRON CARLSBAD									
	24-HOUR EMERGENCY NO. 575-887-5676									
15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.										
D I S P O S I T I O N	PRINTED TYPED NAME James Lavey on behalf of Travis Stevens					SIGNATURE 				
	DATE 3/30/22					DATE				
	16. TRANSPORTER (1) NAME M. Mata TRUCKING					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Alfonso Muñoz					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME				
SIGNATURE 					SIGNATURE					
DATE 3-30-22					DATE					
ADDRESS: 360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770					PHONE:					
PERMIT NO.					20. COMMENTS					
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 4:17	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247866

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal Com # 001H
 API No. 30015415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation:

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

James Lovejoy on behalf of Travis Stevens
 (PRINT) AUTHORIZED AGENTS SIGNATURE Chevron

3/30/22
 DATE

SIGNATURE

TRANSPORTER

Transporter's Name WHP
 Address WHP 7337
 Phone No. _____

Driver's Name Ricky V. Jan 17
 Phone No. _____
 Truck No. #12
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: W344 OUT: _____Name/No. D1

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO
 NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is generated at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM										
NO #CAR- 4921 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
	a. <i>Soil excavated during Spill Remediation</i> <i>APT 30015415350001</i>									<i>Yards</i> <i>20</i>
	b.									
E	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: <i>Cost code 10200</i>						13. WASTE PROFILE NO. <i>NA</i>			
TRANSPORTER	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
R	PRINTED TYPED NAME <i>James Lovejoy - On behalf of Travis Stevens</i>					SIGNATURE <i>[Signature]</i>		DATE <i>3/30/22</i>		
	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME				
DISPOSAL	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
	PRINTED/TYPED NAME <i>[Signature]</i>					PRINTED/TYPED NAME _____				
	SIGNATURE <i>[Signature]</i> DATE <i>3-30-22</i>					SIGNATURE _____ DATE _____				
DISPOSAL	ADDRESS:			PHONE:						
	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770									
	PERMIT NO.			20. COMMENTS						
DISPOSAL	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE <i>Marian</i>			CELL NO. <i>D1</i>		DATE <i>3/30/22</i>		TIME <i>10:34 PM</i>		

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247868

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Cotton Hills 23 26 27
 Name & No. Federal com # 001 4
 County _____
 API No. 30015415350001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Stevens Chevron

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. Mata Trucking
 Address WHP 7337
 Phone No. _____

Driver's Name Ramon Ramirez
 Phone No. _____
 Truck No. 56
 WHP No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

DISPOSAL FACILITY

RECEIVING AREA

IN: UCRE 10200 OUT: _____Name/No. D

Site Name/ Permit No. Red Bluff Facility / STF-065
 Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO
NORM (mR/hr) _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM									
NO #CAR- 4920 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.	
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE		
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS	9. TOTAL	10. UNIT
							No.	Type	QUANTITY
									WT/Vol.
TRANSPORTER	a. <u>Soil excavated during spill Remediation</u>								Yards
	API 30015415350001								20
	b.								
	c.								
DISPOSAL	12. COMMENTS OR SPECIAL INSTRUCTIONS: <u>lost code 10200</u>						13. WASTE PROFILE NO. <u>NA</u>		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676		
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.								
	PRINTED TYPED NAME <u>James Lavey on</u>						SIGNATURE <u>[Signature]</u>		
	behalf of Travis Stevens						DATE <u>3/30/22</u>		
DISPOSAL	16. TRANSPORTER (1)						17. TRANSPORTER (2)		
	NAME						NAME		
	IN CASE OF EMERGENCY CONTACT:						IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:						EMERGENCY PHONE:		
DISPOSAL	18. TRANSPORTER (1): Acknowledgment of receipt of material						19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME _____						PRINTED/TYPED NAME <u>Ramon Ramirez</u>		
	SIGNATURE _____ DATE _____						SIGNATURE <u>Ramon Ramirez</u> DATE <u>3-30-22</u>		
DISPOSAL	ADDRESS: <u>3500 Environmental Solutions</u>			PHONE:					
	5053 US Hwy 285								
	Orla, TX 79770								
	PERMIT NO.			20. COMMENTS					
DISPOSAL	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE <u>Manan</u>						CELL NO.	DATE	TIME
							<u>DI</u>	<u>3/30/22</u>	<u>12:35 PM</u>

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR		NO. <u>247869</u>
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Chevron Carlsbad</u>	Lease/Well <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	Name & No. <u>Federal can # 001 H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	County <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	API No. _____	
	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY _____ B-BARRELS 20 Y-YARDS _____ E-EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovey on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

Transporter's Name

Address

Phone No.

TRANSPORTER

Driver's Name

Phone No.

Truck No.

WHP No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN:

Name/No.

Site Name/
Permit No.Red Bluff Facility / STF-065

Phone No.

432-448-4239

Address

5053 US Hwy 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES 7 NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

NORM (mR/hr) _____

TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/ Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

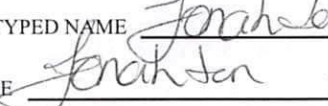
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM									
NO #CAR- 4919 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.	
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS	9. TOTAL	10. UNIT	11.
						No.	Type	QUANTITY	WT/Vol.
	a. Soil excavated during spill Remediation APT 300154HS350001								Yards 20
TRANSPORTER	b.								
	c.								
	d.								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200					13. WASTE PROFILE NO. NA			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
DISPOSAL	CHEVRON CARLSBAD					24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.								
	PRINTED TYPED NAME James Lovejoy on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22	
TRANSPORTER	16. TRANSPORTER (1) NAME M MATA					17. TRANSPORTER (2) NAME			
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME Jonathan					PRINTED/TYPED NAME _____			
	SIGNATURE  DATE 3/30/22					SIGNATURE _____ DATE _____			
DISPOSAL	ADDRESS:		R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			PHONE:			
	PERMIT NO.		20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE 					CELL NO. DI	DATE 3/30/22	TIME 3:37 PM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name

Address

City, State, Zip

Phone No.

GENERATOR

NO. 247870

Permit/PPC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

Cotton Hills 23 26 27
Federal com # 001 1730015415350001VCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds

Oil Based Cuttings

Waste Based Muds

Water Based Cuttings

Produced Formation Solids

Tank Bottoms

E&P Contaminated Soil

Gas Plant Waste

NON-INJECTABLE WATERS

Washout Water (Non-Injectable)

Completion Fluid/Flow Back (Non-Injectable)

Produced Water (Non-Injectable)

Gathering Line Water/Waste (Non-Injectable)

INTERNAL USE ONLY

Truck Washout (exempt waste)

OTHER EXEMPT WASTES (type and generation process of the waste)

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)James Lovely on behalf of Travis Stevens 3/30/22
(PRINT) AUTHORIZED AGENTS SIGNATURE Cherion DATEJames
SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Phone No.

Truck No.

WHP No.

MATA TRUCKING
Hobbs NM 88240Javier Polvan
109

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 5:21 PM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No.

D1

Site Name/

Permit No.

Address

Red Bluff Facility / STF-0655053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES NO

NORM (mR/hr) _____

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/ Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

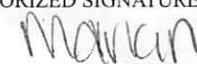
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 4918 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
G E N E R A T O R	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE			
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS		9. TOTAL	
							No. Type		QUANTITY	
	a. Soil Excavated during Spill Remediation								10. UNIT	
	APT 30015415350001								WT/Vol. Yards	
	b.								20	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA			
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676			
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
T R A N S P O R T E R S	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22		
	16. TRANSPORTER (1) NAME M MATA TRUCKING					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Javier Pasion SIGNATURE Javier Pasion DATE 3/30/2022					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
D I S P O S I T I O N				ADDRESS: 3360 Environmental Solutions 5053 US Hwy 285			PHONE:			
	PERMIT NO.			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. D1		DATE 3/30/22		TIME 6:28pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR		NO. 247871
Operator No. _____	Permit/PPC No. _____	
Operators Name <u>Cherron Carlsbad</u>	Lease/Well Name & No. <u>Cotton Hills 23 26 27</u>	
Address <u>5301 Lomas Dr.</u>	County <u>Federal Com # 001H</u>	
City, State, Zip <u>Carlsbad, NM 88220</u>	API No. <u>30015415350001</u>	
Phone No. <u>575-887-5676</u>	Rig Name & No. <u>UCRE 10200</u>	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	
E&P Contaminated Soil <u>20 yards</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		
WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	<u>20</u> Y-YARDS	E-EACH
----------	-----------	-------------------	--------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

Chevron

DATE

SIGNATURE

TRANSPORTER	
Transporter's Name <u>M MOTA Trucking</u>	Driver's Name <u>Roberto A. Munoz</u>
Address _____	Phone No. _____
Phone No. _____	Truck No. <u>01</u>
	WHP No. <u>7337</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

<u>3/30/22</u> SHIPMENT DATE	<u>Roberto</u> DRIVER'S SIGNATURE	<u>3/30/22</u> DELIVERY DATE	<u>Roberto</u> DRIVER'S SIGNATURE
------------------------------	-----------------------------------	------------------------------	-----------------------------------

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____		Name/No. <u>01</u>

Site Name/Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>	

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr) _____

TANK BOTTOMS			
1st Gauge	Feet	Inches	BS&W Received
2nd Gauge			Free Water
Received			Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/ Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number.

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

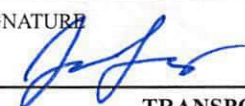
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU Carlsbad, NM									
NO #CAR- 4917 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.	
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD			4. ADDRESS 5301 LOMAS DR.			5. PICK-UP DATE		
	PHONE NO. 575-887-5676			CITY STATE ZIP CARLSBAD, NM 88220			6.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No.	9. TOTAL QUANTITY	10. UNIT WT/Vol.
	a. Soil Excavated during Spill Remediation API 30015415350001								11. Yards 20
	b.								
E	c.								
	d.								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost code 10200						13. WASTE PROFILE NO. NA		
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	CHEVRON CARLSBAD						24-HOUR EMERGENCY NO. 575-887-5676		
O	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.								
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens					SIGNATURE 		DATE 3/30/22	
TRANSPORTER	16. TRANSPORTER (1) NAME					17. TRANSPORTER (2) NAME			
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED/TYPED NAME M. MATE TRUCKING					PRINTED/TYPED NAME Roberto A. Munoz			
S	SIGNATURE _____ DATE 3/30/22					SIGNATURE Roberto DATE 3/30/22			
	ADDRESS: R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770					PHONE:			
DISPOSAL	PERMIT NO.					20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE Marian					CELL NO. D1	DATE 3/30/22	TIME 11:21 PM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

Operator No. _____
 Operators Name Chevron Carlsbad
 Address 5301 Lomas Dr.
 City, State, Zip Carlsbad, NM 88220
 Phone No. 575-887-5676

Permit/PPC No. _____
 Lease/Well Name & No. Cotton Hills 23 26 27
 County Federal con # 001 H
 API No. 300154 153 0001
 Rig Name & No. UCRE 10200
 AFE/PO No. _____

GENERATOR

NO. 247872

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	NON-INJECTABLE WATERS
Oil Based Cuttings	_____	
Waste Based Muds	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Water Based Cuttings	_____	
Produced Formation Solids	_____	INTERNAL USE ONLY
Tank Bottoms	_____	
E&P Contaminated Soil	<u>20 yards</u>	Truck Washout (exempt waste)
Gas Plant Waste	_____	

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
 All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY	B-BARRELS	Y-YARDS	E-EACH
		<u>20</u>	

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

James Lowery on behalf of Travis Stevens 3/30/22
 (PRINT) AUTHORIZED AGENTS SIGNATURE DATE

[Signature]
 SIGNATURE

TRANSPORTER	
Transporter's Name <u>M NATA TRUCKING</u>	Driver's Name <u>Alfonso Muñoz</u>
Address _____	Phone No. _____
Phone No. _____	Truck No. <u>02</u>
	WHP No. <u>7337</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
<u>3-30-22</u>	<u>[Signature]</u>	<u>3-30-22</u>	<u>[Signature]</u>

DISPOSAL FACILITY		RECEIVING AREA
Site Name/Permit No. <u>Red Bluff Facility / STF-065</u>	Phone No. <u>432-448-4239</u>	Name/No. <u>D1</u>
Address <u>5053 US Hwy 285, Orla, TX 79770</u>		
NORM READINGS TAKEN? (Circle One) YES <u>X</u> NO	If YES, was reading > 50 micro roentgens? (Circle One) YES NO	
	NORM (mR/hr) _____	

TANK BOTTOMS	
1st Gauge	Feet _____ Inches _____
2nd Gauge	Feet _____ Inches _____
Received	BS&W Received _____ BS&W (%) _____
	Free Water _____
	Total Received _____

I hereby certify that the above load material has been (circle one): ACCEPTED 3-30-22 Rec If denied, why? [Signature]
 NAME (PRINT) DATE TITLE SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

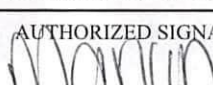
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painging wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU					
Carlsbad, NM					
NO #CAR- 4916 NON-HAZARDOUS WASTE MANIFEST				1. PAGE <u>1</u> OF <u>1</u>	
3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.		5. PICK-UP DATE	
PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220		6.	
GENERATOR	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS	
	a. Soil excavated during spill Remediation			No. Type	
	API 30015475350001			9. TOTAL QUANTITY	
	b.			10. UNIT WT/Vol.	
	c.			11. Yards	
TRANSPORTER	d.				
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			13. WASTE PROFILE NO.	
	lost code 10200			NA	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	CHEVRON CARLSBAD 24-HOUR EMERGENCY NO. 575-887-5676				
DISPOSAL	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.				
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens		SIGNATURE 		DATE 3/30/22
	16. TRANSPORTER (1) NAME		17. TRANSPORTER (2) NAME		
IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE:		EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME Alfonso Munoz		PRINTED/TYPED NAME _____			
SIGNATURE  DATE 3-30-22		SIGNATURE _____ DATE _____			
DISPOSAL SITE	ADDRESS:		PHONE:		
	R360 Environmental Solution : 5053 US Hwy 285 Orla, TX 79770				
	PERMIT NO.		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE 		CELL NO. D1		DATE 3/30/22	
				TIME 10:23 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

Operator No. _____

Operators Name

Address

City, State, Zip

Phone No.

GENERATOR

NO.

247872

Permit/PPC No.

Lease/Well

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

Cotton Hills 23 26 27
Federal con # 001 H

300154 153 0001

UCRE 10200

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds

Oil Based Cuttings

Waste Based Muds

Water Based Cuttings

Produced Formation Solids

Tank Bottoms

E&P Contaminated Soil

Gas Plant Waste

NON-INJECTABLE WATERS

Washout Water (Non-Injectable)

Completion Fluid/Flow Back (Non-Injectable)

Produced Water (Non-Injectable)

Gathering Line Water/Waste (Non-Injectable)

INTERNAL USE ONLY

Truck Washout (exempt waste)

OTHER EXEMPT WASTES (type and generation process of the waste)

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☒ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other

*please select from Non-Exempt Waste List on back

QUANTITY

B-BARRELS

20 Y-YARDS

E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lowery on behalf of Travis Stevens 3/30/22

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Phone No.

Truck No.

WHP No.

Alfonso Munoz

02
7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

DISPOSAL FACILITY

RECEIVING AREA

IN:

OUT:

Name/No.

Site Name/

Permit No.

Address

Red Bluff Facility / STF-065

5053 US Hwy 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (Circle One)

YES

NO

NORM (mR/hr)

TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&W Received

Free Water

Total Received

BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Generator – to be completed by the generator of the waste in transit

Company man contact information – Provide the rig manager's name and number

Operator's Name – Provide the name of the company from which the waste originates

Address, City, State, Zip – Business address for the generator company

Phone No. – Provide a phone number where the generator company can be reached

Permit/RRC No. – Provide the Railroad Commission permit number

Lease/Well Name & No. – Provide the name of the lease/well name and number. If offshore, provide the OCS number

County – Provide the county at which the waste was generated in. If offshore, provide the Field name and Block number.

API No. – Provide the American Petroleum Institute number; may contain up to 14 digits

Rig Name & No. – Provide the name of the drilling contractor and the well number and well name

AFE/PO No. – Provide either the Authorization for Expenditure (AFE) number or the Purchase Order (PO) number

Origination of waste – Check the option that best describes where the waste originates from

Drilling – Waste generated while drilling the well

Initial Completion – Waste generated on the original completion (for re-completions see **Production**)

Production – Waste generated during the production life of the well (i.e., work overs, re-completions, hydraulic fracturing, gas plant treatment, etc.)

Commercial Facilities – Waste that is *generated* at commercial facilities (i.e., Refineries, SWD Wells, Compressor stations, Transfer stations, etc.)

In Transit – Waste which is spilled while in transit; NOT to include well gathering lines or field gathering lines; to include contaminated material resulting from the spill (typically trucking, post-production pipelines, or barges)

Transporter – To be completed by the waste hauler/transporter in the presence of the generator

Transporter name – Provide the company name that is transporting the waste

Address – Business address for the transport company

Driver's Name – Provide the first and last name of the driver hauling the waste

Phone No. – List the phone number at which the transport company can be reached

WHP No. – List the Waste Hauler's Permit Number associated with the truck that is hauling the material

Waste Categories

Exempt E&P Waste

Oil Based Mud

- Oil Based Drilling fluids
- Off Shore Oil Based Drilling fluids

Oil Based Cuttings

- Oil Based Drill cuttings
- Offshore Oil Based cuttings

Water Based Mud

- Water Based Drilling fluids
- Offshore Water Based Drilling fluids

Water Based Cuttings

- Water Based Drill cuttings
- Offshore Water Based cuttings

Produced Formation Sand and Solids

- Hydrogen sulfide abatement wastes from geothermal energy production
- Workover wastes
- Produced sand
- Constituents removed from produced water before it is injected

Tank Bottoms

- Basic sediment, water, and other tank bottoms from storage facilities that hold product and exempt waste
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes
- Accumulated materials such as hydrocarbons, solids, sands, and emulsion from production separators, fluid treating vessels, and production impoundments
- Constituents removed from produced water before it is injected or otherwise disposed of
- Liquid hydrocarbons removed from the production stream but not from oil refining
- Waste crude oil from primary field operations

E&P Contaminated Soil

- On-Lease oil spill

Wash Out Water

- Rigwash
- Cooling tower blowdown

Completion Fluids/Flowback

- Well completion, treatment, and stimulation fluids, and frac proppant
- Packing fluids

Produced Water

- Produced water
- Geothermal Production Fluids
- Materials ejected from a producing well during blowdown

Gathering Line Water/Waste

- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation
- Pigging wastes from gathering lines

Gas Plant Waste

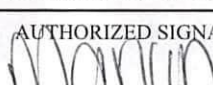
- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, and filter media, backwash, and molecular sieves
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream)
- Wastes from subsurface gas storage and retrieval, except for the non-exempt wastes

Non-Exempt E&P Waste

All non-exempt oil & gas waste must be analyzed for and be below the threshold limits for Toxicity (TCLP Metals), Ignitability, Corrosivity and Reactivity.

www.epa.gov/osw/hazard/wastetypes/characteristic.htm

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Oil and gas service company wastes such as drum rinsate, sandblast media, painging wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste
- Non-Exempt E&P liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Waste compressor filters and blowdown
- Non-Exempt E&P waste in transportation pipeline related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler scrubber fluids, sludges, and ash
- E&P Contaminated Soil
 - Transportation spill of post-production oil and gas

CHEVRON MCBU					
Carlsbad, NM					
NO #CAR- 4916 NON-HAZARDOUS WASTE MANIFEST				1. PAGE <u>1</u> OF <u>1</u>	
3. COMPANY NAME CHEVRON CARLSBAD		4. ADDRESS 5301 LOMAS DR.		5. PICK-UP DATE	
PHONE NO. 575-887-5676		CITY STATE ZIP CARLSBAD, NM 88220		6.	
GENERATOR	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS	
	a. Soil excavated during spill Remediation			No. Type	
	API 30015475350001			9. TOTAL QUANTITY	
	b.			10. UNIT WT/Vol.	
	c.			11. Yards	
d.			20		
ADDRESS	12. COMMENTS OR SPECIAL INSTRUCTIONS:			13. WASTE PROFILE NO.	
	lost code 10200			NA	
TRANSPORTER	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			24-HOUR EMERGENCY NO.	
	CHEVRON CARLSBAD			575-887-5676	
O	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.				
	PRINTED TYPED NAME James Lovely on behalf of Travis Stevens		SIGNATURE 		DATE 3/30/22
TRANSPORTER	16. TRANSPORTER (1) NAME		17. TRANSPORTER (2) NAME		
	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMERGENCY CONTACT:		
	EMERGENCY PHONE:		EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
PRINTED/TYPED NAME Alfonso Muñoz		PRINTED/TYPED NAME _____			
SIGNATURE  DATE 3-30-22		SIGNATURE _____ DATE _____			
DISPOSAL SITE	ADDRESS:		PHONE:		
	R360 Environmental Solution : 5053 US Hwy 285 Orla, TX 79770				
	PERMIT NO.		20. COMMENTS		
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE 		CELL NO. D1		DATE 3/30/22	
				TIME 10:23 AM	

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information

Name Travis Stevens

Phone No. _____

GENERATOR

NO. 247904

Operator No. _____

Permit/PPC No. _____

Operators Name Chevron Carlsbad

Lease/Well

Cotton Hills 23 26 27Address 5301 Lomas Dr

Name & No.

Federal Com # 001 HCity, State, Zip Carlsbad, NM 88220

County

API No.

30015415350001Phone No. 575-887-5676

Rig Name & No.

AFE/PO No.

UCRF 10200 (DB) Carlsbad

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Belly</u>
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B-BARRELS 20 Y-YARDS E-EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

James Lovely on behalf of Travis Stevens

(PRINT) AUTHORIZED AGENTS SIGNATURE

4/7/22

DATE

SIGNATURE

TRANSPORTER

Transporter's Name M. Mafu

Driver's Name

Arthur Ruiz

Address _____

Phone No.

Phone No. _____

Truck No.

#04

WHP No.

7337

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

4/7/22

SHIPMENT DATE

Arthur Ruiz

DRIVER'S SIGNATURE

4/7/22

DELIVERY DATE

Arthur Ruiz

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: 12:39 PM OUT: _____Name/No. D1

Site Name/

Red Bluff Facility / STF-065

Permit No.

Phone No.

432-448-4239Address 5053 US Hwy 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NONORM (mR/hr) 0.0

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Jose G. G. G.

NAME (PRINT)

4-7-22

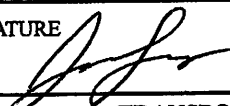
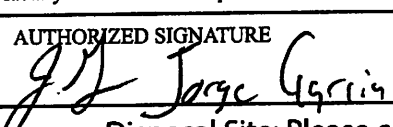
DATE

Travis Stevens

TITLE

Travis Stevens

SIGNATURE

CHEVRON										
MCBU										
Carlsbad, NM										
NO #CAR- 5015 NON-HAZARDOUS WASTE MANIFEST						1. PAGE <u>1</u> OF <u>1</u>		2. TRAILER NO.		
GENERATOR	3. COMPANY NAME CHEVRON CARLSBAD PHONE NO. 575-887-5676			4. ADDRESS 5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220			5. PICK-UP DATE 6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY	
	a. Soil Excavated during Spill Remediation APT 30015415330001								10. UNIT WT/Vol.	
	b.								11. Yards	
	c.									
	d.									
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Cost Code UCRE 10200							13. WASTE PROFILE NO. NA		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	CHEVRON CARLSBAD							24-HOUR EMERGENCY NO. 575-887-5676		
	15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.									
TRANSPORTER	PRINTED TYPED NAME James Lovely on behalf of Travis Sterns					SIGNATURE  DATE 4/7/22				
	16. TRANSPORTER (1) NAME M Mota					17. TRANSPORTER (2) NAME				
	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Aldo Ruiz SIGNATURE Aldo Ruiz DATE 04/07					19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____				
DISPOSAL SITE	R360 Environmental Solutions 5053 US Hwy 285 Orla, TX 79770			ADDRESS:			PHONE:			
	PERMIT NO. STF065					20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE 					CELL NO. 432-448-4239		DATE 4-7-22		TIME 12:39pm

Disposal Site: Please complete Disposal Facility section at bottom of form and
mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1

TRANSPORTER: COPY 2

DISPOSAL SITE: COPY 3 & 4

Appendix D

Photographic Documentation

Client: Chevron MCBU	Project Number: 60657072
Project Name: Cotton Hills 23 26 27 Federal Com #001H	Site Location: Eddy County, NM

REMEDATION REPORT**Photograph No.**
1**Photographer:**
J Lovely**Date:**
3/29/2022**Comments:**
Looking southeast
at northwestern
corner of
excavation area.**REMEDATION REPORT****Photograph No.**
2**Photographer:**
J Lovely**Date:**
3/31/2022**Comments:**
View of excavation
immediately north
of the pump jack.

Client: Chevron MCBU	Project Number: 60657072
Project Name: Cotton Hills 23 26 27 Federal Com #001H	Site Location: Eddy County, NM
REMEDIATION REPORT	
Photograph No. 3	
Photographer: J Lovely	
Date: 4/4/2022	
Comments: View of excavation area east of the pump jack.	
REMEDIATION REPORT	
Photograph No. 4	
Photographer: J Lovely	
Date: 04/04/2022	
Comments: Looking southeast near the northwest corner of excavation following completion.	

Client: Chevron MCBU	Project Number: 60657072
Project Name: Cotton Hills 23 26 27 Federal Com #001H	Site Location: Eddy County, NM
REMEDIATION REPORT	
Photograph No. 5	
Photographer: J Lovely	
Date: 3/31/2022	
Comments: Hydrovac soil removal along the electrical service line north of the pump jack in background with excavation proceeding in foreground.	
REMEDIATION REPORT	
Photograph No. 6	
Photographer: J Lovely	
Date: 4/6/2022	
Comments: Compaction of excavation backfill material.	

Client: Chevron MCBU	Project Number: 60657072
Project Name: Cotton Hills 23 26 27 Federal Com #001H	Site Location: Eddy County, NM
REMEDIATION REPORT	
Photograph No. 7	
Photographer: J Lovely	
Date: 4/8/2022	
Comments: Backfilled and graded excavation area east of the pump jack.	
REMEDIATION REPORT	
Photograph No. 8	
Photographer: J Lovely	
Date: 4/8/2022	
Comments: Overview of backfilled and graded excavation area.	

State of New Mexico
Oil Conservation Division

Incident ID	NRM1936556814
District RP	
Facility ID	
Application ID	

Remediation Plan

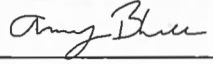
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist - WaterSignature:  Date: 6-10-2022email: ABarnhill@chevron.com Telephone: 432-687-7108**OCD Only**Received by: Robert Hamlet Date: 10/19/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Robert Hamlet Date: 10/19/2022

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 117319

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 117319
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Chevron's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. AECOM and Chevron do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are around the electric line and identified on the site map as "ELD-1" and "ELD-2". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	10/19/2022